

5. SERVICE TABLES

5.1 SERVICE PROGRAM

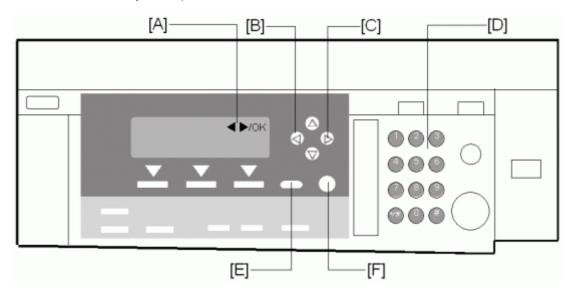


 Do not let the user access the SP mode or the SSP mode. Only service representatives are allowed to access these modes. The machine operation is NOT guaranteed after any person other than service representatives accesses the SP mode.

5.1.1 USING SP AND SSP MODES

The following two modes are available:

- SP Mode (Service Program Mode): The SP Mode includes the programs that are necessary for standard maintenance work.
- SSP Mode (Special SP Mode): The SSP Mode includes SP-Mode programs and some special programs. You need some extra knowledge to use these special programs. For details, consult your supervisor.



Starting SP Mode

- 2. Press the key and hold it down until the SP-mode menu is displayed (about 3 seconds).

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Selecting Programs

- When a blinking underscore (or several blinking underscores) is displayed, you can type a number from the numeric keypad [D].
- When the sign "◀►/OK" [A] is displayed upper right corner, you can scroll through the menu by pressing the left-arrow key [B] or the right-arrow key [C]. To select program, press the OK key [F].

Specifying Values

- After locating a program, press the OK key. A blinking underscore (or several blinking underscores) indicates which value you can change. The value in parentheses is the default value of the menu.
- 2. Type a necessary value from the numeric keypad. To switch between positive (plus) and negative (minus) values, press the key.
- 3. To validate the value, press the OK key. To cancel the value, press the escape key [E].

Activating Copy Mode

You can activate the copy mode while the SP mode is running. When you do so, the copier outputs images or patterns that help you adjust the SP setting.

- 1. Press the ® key. The copy mode is activated.
- 2. Specify copy settings and press the ® key.
- 3. To return to the SP mode, press the key.



You cannot end the SP mode while the copy mode is activated.

Quitting Programs/Ending (S) SP Mode

Press the key or the escape key to quit the program. You can end the SP mode by pressing one of these keys several times.

5.1.2 COPIER SERVICE PROGRAM MODE TABLES

Conventions used in the tables:

- Asterisk (*): The settings are saved in the NVRAM. Most of them return to the default values when you execute SP5-801-002. CTL indicates that the data is contained in NVRAM on the controller board.
- DFU: The program is for design/factory use only. Do not change the settings.
- Brackets ([]): The brackets enclose the setting rage, default value, and minimum step with unit ([Minimum to Maximum / Default / Step]).

SP1-XXX (Feed)

1001*	Leading Edge Registration	[-9.0 to 9.0 / 0.0 / 0.1 mm/step]
1001 1	All Trays	Adjusts the leading-edge registration (
1001 2	By-pass	"Adjusting Copy Image Area" in the section "Replacement and Adjustment").
1001 3	Duplex	

1002*	side-to-side Registration	[-9.0 to 9.0 / 0.0 / 0.1 mm/step]
1002 1	1st Tray	Adjusts the side-to-side registration (
1002 2	2nd Tray	"Adjusting Copy Image Area" in the section "Replacement and Adjustment"). SP1-002-001
1002 5	By-pass	is applied to all trays. SP1-002-002 and 005 adjusts the difference from SP1-002-001.
1002 6	Duplex	Adjusts the side-to-side registration of the 2nd side in duplex copying. The 1st side is adjusted by SP1-002-001 through 005.

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1003*	Paper Feed Timing	Adjusts the amount of paper buckle on the registration roller.
1003 1	1st tray	[0 to 10 / 5 / 1 mm/step]
1003 3	Bank Trays	[0 to 10 / 5 / 1 mm/step]
1003 4	By-pass	[0 to 10 / 5 / 1 mm/step]
1003 5	Duplex	[0 to 20 / 5 / 1 mm/step]

1103*	Fusing Idling		[0 = No / 1 = Yes]	
	Enables or disables the contact-release control. The following table lists the results.			
4400.4	Setting		0 = No	1 = Yes
		Does not work		
		Longer		
	Fusing quality		Lower	Higher

	Fusing Temperature Adjustment		
1105*	Adjusts the target fusing temperature. Note that the thermistor is at the center of the hot roller.		
1105 1	Warm Up-Center	[140 to 180 / 160 / 1°C/step]	
1105 3	Standby-Center	[140 to 160 / 150 / 1°C/step]	
1105 5	Copying-Center	[140 to 180 / 160 / 1°C/step]	
1105 7	Low Level 2-Center	[0 to 80 / 60 / 1°C/step]	
1105 9	Thick-Center	[140 to 185 / 165 / 1°C/step]	

1106	Display Fusing
1106 1	Displays the fusing temperature.

	Fusing Soft Start DFU			
1107*	Adjusts the number of zero-cross cycles of the fusing lamp AC supply needed to bring the fusing lamp power to 100% while bringing the lamp up to the standby temperature or while copying. Increase this value if the machine is experiencing sudden power dropouts.			
1107 1	Warm Up Soft Start	[0 = 10 times / 1 = 20 times / 2 = 50 times]		
1107 2	Other Soft Start	[0 = 10 times / 1 = 20 times / 2 = 50 times / 3 = 1 time]		
1107 3	Soft Stop Setting	[0: No / 1 : Yes]		

1108*	Set-Fusing Start	[0 = 1s / 1 = 1.5s / 2 = 2s]
1108 1	Specifies the interval for fusing-temperature control.	

1109	Nip Band Check
1109	Conducts the nip band check ("Adjusting Nip Band" in the section "Replacement and Adjustment").

1110*	Fan Control Timer	[30 to 60 / 30 / 1 s/step]
1110 1	specified time before changi	e. The fan motor keeps its operating speed for the ng the speed or stopping. The fan control timer m suddenly stopping. This function protects the

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1159*	Fusing Jam SC	[0 = No / 1 = Yes]
1159 1	set to "1" (default: 0), consec	utive jam detection at the fusing unit. If this SP is cutive fusing jam alarm occurs (SC559) when the ecutive paper jams at the fusing unit.

1902	Display-AC Frequency	
1902 1	Displays the fusing lamp power control frequency (as detected by the zero cross signal generator). The displayed value is 1/5 the actual frequency: 10 and lower = 50 Hz, 11 and higher = 60 Hz.	

Ĺ	1911*	By-pass Envelope	[0 = No / 1= Yes]
	1911 1		nvelope printing runs when you enable this you select "Thick Paper" as the paper type of the Settings > Tray Paper Settings > Paper Type:

SP2-XXX (Drum)

2001*	Charge Roller Bias Adjustment	
	Printing	[-2100 to -1500 / -1650 / 1 V/step]
2001 1	Adjusts the voltage applied to the charge roller for printing. The voltage changes automatically as charge-roller voltage control works. The value here is the base value for the charge-roller voltage control.	
	ID sensor pattern	[0 to 400 / 300 / 1 V/step]
2001 2	Adjusts the voltage applied to the charge roller for the ID sensor pattern (as part of charge-roller voltage correction). The charge-roller voltage is obtained by adding SP2-001-002 to the value of SP2-001-001.	

1		
2101*	Erase Margin Adjustment	Adjusts the width of the erased area ("Adjusting Copy Image Area" in the section "Replacement and Adjustment").
2101 1	Leading edge	[0.0 to 9.0 / 3.0 / 0.1 mm/step] Specification: 2 ± 1.5 mm
2101 2	Trailing	[0.0 to 9.0 / 4.0 / 0.1 mm/step] Specification: 2 +2.5/–1.5 mm
	The rear trailing edge is this value plus 1.2 mm.	
2101 3	Left side	[0.0 to 9.0 / 2.0 / 0.1 mm/step] Specification: 2 ± 1.5 mm
	The rear left edge is this value plus 0.3 mm.	
2101 4	Right side	[0.0 to 9.0 / 2.0 / 0.1 mm/step] Specification: 2 +2.5/–1.5 mm
	The rear right edge is this value plus 0.3 mm.	

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2201*	Development Bias Adjustment	
	Printing	[-1500 to -200 / -650 / 1 V/step]
density becomes higher when you specify		to the development roller for printing. Image en you specify a smaller value (a greater absolute mes lower when you specify a greater value (a
	ID sensor pattern	[-2 = LL (220 V) / -1 = L (260 V) / 0 = N (300 V) / 1 = H (340 V) / 2 = HH (380 V)]
2201 2	Adjusts the voltage applied to the development roller for the ID sensor pattern. The voltage applied is obtained by adding SP2-201-002 to SP2-201-1. The setting affects ID sensor pattern density, which in turn affects the toner supply.	

2213*	Outputs after Near End	
2213 1	[0 = 50 pages / 1 = 20 sheets] Sets the number of copy/print/fax pages that can be made after toner near-end has been detected. Reduce the number of pages if the user normally makes copies with a high image ratio.	

2214	Developer Initialization	
2214 1	Initializes the TD sensor toner supply target voltage and the TD sensor gain value. Execute this SP replacing the developer or the TD sensor.	

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2221	ID Sensor Error Analysis (* "ID Sensor Error Analysis (SP2-221)")	
2221 1	Vsg	Displays the Vsg value.
2221 2	Vsp	Displays the Vsp value.
2221 3	PWM	Displays the PWM value.
2221 4	Vsdp	Displays the Vsdp value.
2221 5	Vt	Displays the Vt value.
2221 6	Vts	Displays the Vts value.

2301*	Transfer Current Adjustment ("Image Transfer Current").	
	Normal paper	[$-2 = -4 \mu A / -1 = -2 \mu A / 0 = 0 \mu A / 1 = 2 \mu A / 2$ = $+4 \mu A$]
2301 1	Adjusts the current applied to the transfer roller when feeding from a paper tray. Use a high setting if the user normally feeds relatively thick paper (within spec) from a paper tray	
	Thick/Special paper	[$-2 = -4 \mu A / -1 = -2 \mu A / 0 = 0 \mu A / 1 = 2 \mu A / 2$ = $+4 \mu A$]
2301 2	Adjusts the current applied to the transfer roller when feeding from the by-pass tray. Use a high setting (a) if the user normally feeds relatively thick paper from the by-pass tray, or (b) if waste toner is re-attracted from the drum (which can occur when using transparencies).	
2301 3	Duplex	[$-2 = -4 \mu A / -1 = -2 \mu / 0 = 0 \mu A / 1 = 2 \mu A / 2 = +4 \mu A$]
	Adjusts the current applied to the transfer roller when carrying out a duplex job. Use this SP if there is poor image transfer on the rear side of duplex copies.	

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	Cleaning	[–10 to 1 / –1 / 1 μA/step]
2301 4		to the transfer roller for roller cleaning. Increase on the roller after cleaning. (Remaining toner may the rear side.)

2802	Forced Developer Churning
2802 1	Initializes the developer and checks the TD sensor output (Vt). The machine mixes the developer for 2 minutes while reading and displaying the Vt value. The machine does not initialize the TD sensor output. If the machine has not been used for a long period, prints may have a dirty background. In a case like this, use this SP to mix the developer. The message "Completed" is displayed when the program ends normally.

2906*	Tailing Correction	
	Shift value	[0.0 to 1.0 / 0.0 / 0.1 mm/step]
Shifts the image position at the intervals specified by SP2-906-002. copier is continuously printing vertical lines (such as in tables), the proof of the separate correctly. This SP can prevent this.		ng vertical lines (such as in tables), the paper may
2906 2	Interval	[1 to 10 / 1 / 1 page/step]
2000 2	Changes the interval of the image position shift specified by SP2-906-001.	

2908	Forced Toner Supply	
2908 1	Supplies the toner to the development unit. The processing stops under either of the following conditions: The toner density in the development unit reaches the standard level. The processing has continued for two 2 minutes.	

2915*	Polygon Mirror Motor Idling Time	[0 = None / 1 = 15 s / 2 = 25 s]
2915 1	starts its operation when an origicover or DF is opened. The motor	or idling time. The polygon mirror motor inal is set, a key is pressed, or the platen or stops if no manual operation is performed set "0", the motor does not stop while the

2921*	Toner Supply Mode	
2921 1	[0 = Sensor 1 / 1 = Sensor 2 (DFU)] Selects the toner supply mode. Keep the default setting as long as the TD sensor is working.	

2922*	Toner Supply Time	[0.1 to 5.0 / 0.6 / 0.1 s/step]
2922 1	specified time. To validate this se	ne toner supply motor remains on for the etting, select "0" in SP2-921-001. Specify a make many copies having high proportions

2926*	Standard Vt	[0.00 to 5.00 / 2.50 / 0.01 V/step] DFU
2926 1		developer). The TD sensor output is TD sensor initial setting process. This SP is is "0", "1", or "2".

2927*	ID Sensor Control	[0 = No / 1 = Yes]
2927 1	Determines whether the ID sens density control. Keep the default	or signal is referenced or not for the toner value in usual operations.

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2928	Toner End Clear	
2928 1	Clears the following messages and counters without supplying the toner: Toner near end message Toner end message Toner near end counter Toner end counter on not use this SP in usual operations. When the toner in the development unit is abnormally insufficient, the drum may attract the toner carrier to its surface. The toner carrier damages the drum surface	

2929*	Vref Limits	Adjust the upper or lower Vref limit.
2929 1	Upper	[0.50 to 3.50 / 3.20 / 0.01V/step] DFU
2929 2	Lower	[0.50 to 3.50 / 0.70 / 0.01V/step] DFU

2994*	ID Sensor Detection Temperature	[30 to 90 / 30 / 1 °C/step]
2994 1	Adjusts the temperature threshold. The ID sensor signal is not referenced when the fusing temperature is at the specified level or higher while the copier is recovering or starting up.	

2996*	Transfer Roller Cleaning	[0 = No / 1 = Yes]
2996 1	backside of the paper becor	e transfer roller before each job. Select "1" if the mes unclean when output. Note that the copier at the first copy when you select "1". If you select ver cleaned.

2998*	Main Scan Magnification	[-0.5 to +0.5 / 0.0 / 0.1%/step]
2998 1		► "Adjusting Copy Image Area" in the section ent"). The specification is 100 ± 1.0%.

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4008*	Sub-Scan Magnification (Scanner)	[-0.9 to +0.9 / 0.0 / 0.1%/step]
4008 1	Adjusts the sub-scan magnification ("Adjusting Copy Image Area" in the section "Replacement and Adjustment").	

4009*	Main Scan Magnification (Scanner)	[-0.9 to +0.9 / 0.0 / 0.1%/step]
4009 1	Adjusts the main-scan magnification ("Adjusting Copy Image Area" in the section "Replacement and Adjustment").	

4010*	Leading Edge Scan Registration	[-5.0 to +5.0 / 0.0 / 0.1 mm/step]
4010 1	Adjusts the leading edge registration section "Replacement and Adjustment and Adj	on ("Adjusting Copy Image Area" in the ent").

4011*	Side-to-side Scanner Registration	[-2.0 to +2.0 / 0.0 / 0.1 mm/step]
4011 1	Adjusts the side-to-side registration for scanning in platen mode (** "Adjusting Copy Image Area" in the section "Replacement and Adjustment").	

4012*	Scan Erase Margin	[0 to 9.0 / 1.0 / 0.1 mm/step]
4012 1	Leading edge	
4012 2	Trailing edge	Adjusts the scanning margin. Generally, the scanning margin should be as little as possible.
4012 3	Left Side	To adjust the image area, use SP2-101.
4012 4	Right Side	

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4013	Scanner Free Run
4013 1	Conducts the scanner free run with the exposure lamp on.

4015*	White Plate Scanning	
	Start position	[-3.0 to +6.0 / 0.0 / 0.1 mm/step]
		position on the white plate. The base value is 17.8 position. This SP specifies the offset from this
	Scanning length	[-3.0 to +6.0 / 0.0 / 0.1 mm/step]
Adjusts the distance of the white plate scan. The scan position (SP4-015-001) and ends at the specified distance 2.0 mm. This SP decides the offset from this base value larger value.		ends at the specified distance. The base value is

4428	Scan Auto Adjustment
4428 1	Conducts the automatic scanner adjustment. Use this SP after replacing the white plate ("Scanning" in the section "Replacement and Adjustment").

4606	SBU Offset-Target	
4607 1	EVEN	
4607 2	ODD	[0 to 63 / 10 / 1 /step]
4607 3	RED	Adjusts the target black level for each signal.
4607 4	GREEN	These are used for offset adjustment in the SBU.
4607 5	BLUE	

4607	SBU Gain-Target	
4607 1	EVEN	
4607 2	ODD	[0 to 255 / 180 / 1 /step]
4607 3	RED	Adjusts the target white level for each signal.
4607 4	GREEN	These are used for gain adjustment in the SBU.
4607 5	BLUE	

4623	SBU Offset-Result	
4623 1	EVEN	
4623 2	ODD	[0 to 255 / 0 / 1 /step]
4623 3	RED	Displays the result value of the offset adjustment
4623 4	GREEN	in the SBU.
4623 5	BLUE	

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4628	SBU Gain-Result	
4628 1	EVEN	
4628 2	ODD	[0 to 255 / 0 / 1 /step]
4628 3	RED	Displays the result value of the gain adjustment
4628 4	GREEN	in the SBU.
4628 5	BLUE	

4640	SBU Offset-Loop	
4640 1	EVEN	
4640 2	ODD	[0 to 10 / 0 / 1 /step]
4640 3	RED	Displays the number of the offset adjustment in
4640 4	GREEN	the SBU.
4640 5	BLUE	

4641	SBU Gain-Loop	
4641 1	EVEN	
4641 2	ODD	[0 to 10 / 0 / 1 /step]
4641 3	RED	Displays the number of the gain adjustment in
4641 4	GREEN	the SBU.
4641 5	BLUE	

4642	SBU Offsetpre-Loop	
4642 1	EVEN	
4642 2	ODD	[0 to 3 / 0 / 1 /step]
4642 3	RED	Displays the number of the pre-offset adjustment
4642 4	GREEN	in the SBU.
4642 5	BLUE	

4646	SBU Adj Error	
4646 1	Offsetpre-Mono	
4646 2	Offsetpre-Color	
4646 3	Offset-Mono	[0 = Success / 1 = Failure]
4646 4	Offset-Color	Displays the result of SBU adjustment.
4646 5	Gain-Mono	
4646 6	Gain-Color	

4654*	SBU Offset-Adjust	
4654 1	EVEN	
4654 2	ODD	[0 to 255 / - / 1 /step]
4654 3	RED	Displays the offset value of the offset adjustment
4654 4	GREEN	in the SBU.
4654 5	BLUE	

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4658*	SBU Gain-Adjust	
4658 1	EVEN	
4658 2	ODD	[0 to 511 / - / 1 /step]
4658 3	RED	Displays the gain value of the gain adjustment in
4658 4	GREEN	the SBU.
4658 5	BLUE	

4685*	Gray Balance-Book	
4685 1	RED	[128 to 383 / 256 / 1 /step]
4685 2	GREEN	Adjusts the coefficient of the gray balance
4685 3	BLUE	adjustment for the book scanning.

4686*	Gray Balance-DF	
4686 1	RED	[128 to 383 / 256 / 1 /step]
4686 2	GREEN	Adjusts the coefficient of the gray balance
4686 3	BLUE	adjustment for the DF scanning.

4687*	87* White Balance	
4687 1	Adjust	[222 to 281 / 256 / 1 /step] Adjust the correction value for the white plate adjustment.
4687 2	Result	Displays the current value of the white plate adjustment. If SP4-428 has not been done, this value is "0".

4690	White Peek Init	
4658 1	EVEN	
4658 2	ODD	[0 to 255 / - / 1 /step]
4658 3	RED	Displays the white offset value of the pre-offset adjustment in the SBU.
4658 4	GREEN	
4658 5	BLUE	

4693	Black Ave Init	
4658 1	EVEN	
4658 2	ODD	[0 to 255 / - / 1 /step]
4658 3	RED	Displays the black offset value of the pre-offset
4658 4	GREEN	adjustment in the SBU.
4658 5	BLUE	

4902*	Exposure Lamp ON	[0 : OFF / 1: ON]
4902 1	Turns the exposure lamp or to turn it off specify "0".	or off. To turn on the exposure lamp, specify "1";

4903*	ADS Level	[0 to 255 / 252 / 1/step]
4903 1	Adjusts the ADS level.	

4904*	ADS Lower Limit	[0 to 255 / 80 / 1/step]
4904 1	Adjusts the ADS lower limit.	

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4905*	ADS Level	[0 = All / 1 = One]
4905 1	Checks the whole area (0 = ADS level. The specific area • ARDF: ±37.5 mm from the • Platen Cover: 15 to 90 mm	e center

4921*	Image Adj Selection		
	Сору	[0 to 10 / 0 / 1]	
001	Selects which mode the settings from SP4-922 to SP4-932 are used for. 0 = None, 1 = Text 1, 2 = Text 2, 3 = Photo 1, 4 = Photo 2, 5 = Photo 3, 6 = Special 1, 7 = Special 2, 8 = Special 3, 9 = Special 4, 10 = Special 5		
	Fax	[0 to 5 / 0 / 1]	
002	Selects which mode the settings from SP4-922 to SP4-932 are used for. 0 = None, 1 = Text 1, 2 = Text 2, 3 = Photo 1, 4 = Photo 2, 5 = Special 1		
	Scanner (Mono)	[0 to 4 / 0 / 1]	
003	Selects which mode the settings from SP4-922 to SP4-932 are used for. 0 = None, 1 = Text 1, 2 = Text 2, 3= Photo 1, 4 = Photo 2		
	Scanner (Color)	[0 to 2 / 0 / 1]	
004		s which mode the setting of SP4-935 is used for. ne, 1 = Color Text, 2 = Color Photo	
	Scanner (Gray Scale)	[0 or 1 / 0 / -]	
005	Selects which mode the setting of SP4-936 is used for. 0 = None, 1 = Gray Scale		

	Scanner Gamma	
4922*	Selects "text" or "photo" as the priority output mode. This setting is applied all image processing modes of SP4-921.	
001	Сору	
002	Fax	[0 =System default/ 1=Text/ 2=Photo]
003	Scanner	

	Notch Selection	
4923*	 Selects the value of the center ID adjustment notch for the ID adjustment LEDs. Normally the center notch is 3 (range 1-5). If -1 is selected, each notch shifts down (becomes lighter). If +1 is selected, each notch shifts up (becomes darker). This setting is applied to all image processing modes of SP4-921. 	
001	Сору	
002	Fax	[–1 = Light / 0 = Normal / +1 = Dark]
003	Scanner	

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Texture Removal		
4926*	Adjusts the texture removal level that is used with error diffusion. 0: The default value for each mode is used. Text 1, Photo 2, Special 2, and Special 5 have a default of 3 and Photo 1-3 have a default of 1. 1: No removal applied. 2 to 5: Removal applied at the level specified here. The higher the setting (level), the less clear the image will become (more texture removal). This setting is only applied to the originals in SP4-921.	
001	Сору	
002	Fax	[0 to 6 / 0 / 1/step]
003	Scanner	

	Line Width Correction	
4927*	Adjusts the line width correction algorithm. Positive settings produce thicker lines; negative settings produce thinner lines. This setting is only applied to the originals in SP4-921.	
001	Сору	
002	Fax	[-2 to 2 / 0 / 1/step]
003	Scanner	

	Independent Dot Erase	
4928*	Selects the dot erase level. Higher settings provide greater erasure. This setting is only applied to the originals in SP4-921.	
001	Сору	
002	Fax	[-2 to 2 / 0 / 1/step]
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	Positive/Negative	[0 = No , 1 = Yes]
4929*	Inverts white and black. This setting is only applied to the originals in SP4-921.	
001	Сору	
002	Fax	

4930*	Sharpness-Edge	[-2 to 2 / 0 / 1/step]
		is only applied to the originals in SP4-921.
001	Сору	
002	Fax	
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4931*	Sharpness-Solid	[-2 to 2 / 0 / 1/step]
	Adjust the clarity. This setting is only applied to the originals in SP4-921.	
001	Сору	
002	Fax	
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4932*	Sharpness-Low ID	[-2 to 2 / 0 / 1/step]
Adjust the clarity. This setting is only applied to the originals in SP4		is only applied to the originals in SP4-921.
001	Сору	
002	Fax	
003	Scanner	

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4935*	Color Image Adjust		
	Main Scan MTF Level	[0 to 3 / 0 / 1/step]	
001	Adjust the MTF level for the main scan. This setting is only activated for the specified mode with SP4-921-004. 0: None, 1: Weak, 2: Middle, 3: Strong		
	Main Scan MTF Strength	[0 to 5 / 0 / 1/step]	
002	Adjust the MTF strength for the specified mode with Sl 0: 1, 1: 1/32, 2: 1/16, 3: 1/8		
	Sub Scan MTF Level	[0 or 1 / 0 / 1/step]	
003	Turns on or off the MTF for the sub scan. This setting is only activated for the specified mode with SP4-921-004. 0: No, 1: Yes		
	Sub Scan MTF Strength	[0 to 5 / 0 / 1/step]	
004	Adjust the MTF strength for the sub scan. This setting is only activated for the specified mode with SP4-921-004. 0: 1, 1: 1/32, 2: 1/16, 3: 1/8, 4: 1/4, 5: 1/2		
	Smooth Level	[0 to 2 / 0 / 1/step]	
005	Adjust the smooth level. This setting is only activated for the specified mode with SP4-921-004. 0: None, 1: Weak, 2: Strong		
	Brightness	[0 to 255 / 128 / 1/step]	
006	Adjust the brightness level. This setting is only activated for the specified mode with SP4-921-004.		
	Contrast	[0 to 255 / 128 / 1/step]	
007	Adjust the contrast level. This setting is only activated for the specified mode with SP4-921-004.		

4936*	Gray Scale Image Adjust		
	Main Scan MTF Level	[0 to 15 / 0 / 1/step]	
001	Adjust the MTF level for the main scan. This setting is only activated for the specified mode with SP4-921-004. 0: None, 1: Level 1 to 15: Level 15		
	Main Scan MTF Strength	[0 to 5 / 0 / 1/step]	
002	Adjust the MTF strength for the specified mode with SI 0: 1, 1: 1/32, 2: 1/16, 3: 1/8		
	Sub Scan MTF Level	[0 to 13 / 0 / 1/step]	
003	Adjust the MTF level for the sub scan. This setting is only activated for the specified mode with SP4-921-004. 0: No, 1: Level 1 to 13: Level 13		
	Sub Scan MTF Strength	[0 to 5 / 0 / 1/step]	
004	Adjust the MTF strength for the sub scan. This setting is only activated for the specified mode with SP4-921-004. 0: 1, 1: 1/32, 2: 1/16, 3: 1/8, 4: 1/4, 5: 1/2		
	Smooth Level	[0 to 7 / 0 / 1/step]	
005	Adjust the smooth level. This setting is only activated for the specified mode with SP4-921-004. 0: None, 1: Level 1 to 7: Level 7		
	Brightness	[0 to 255 / 128 / 1/step]	
006	Adjust the brightness level. This setting is only activated for the specified mode with SP4-921-004.		
	Contrast	[0 to 255 / 128 / 1/step]	
007	Adjust the contrast level. This setting is only activated for the specified mode with SP4-921-004.		

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4941*	White Line Erase [0 to 2 / 1 / 1/step]
4941 1	Selects the white line erase level. 0: None 1: Weak 2: Strong This setting is effective for all modes. 0: White line erase is not used, and white level correction is used instead. This setting is applied regardless of what mode has been selected in SP4-921.

4942*	Black Line Erase	[0 to 3 / 2 / 1/step]
4942 1	are scanned by the DF. [0 = No / 1 = Very weak / 2	level. This setting is effective only when originals = Weak / 3 = Strong] rdless of what mode has been selected in

SP5-XXX (Mode)

5001 All Indicators On	
5001 1	Turns on all LEDs. The LCDs turn on and off every 3 seconds. Press the reset key to end this program.

5024*	mm/inch Selection		
001	Selects whether mm or inches are used in the display. Note After selecting the number, you must turn the main power switch off and on. Europe/Asia model: [0: mm / 1: inch] American model: [0: mm / 1: inch]		

5044*	Panel Bit Switch	Note: B288 model only.
0011	T diloi Bit ownon	Troto. B200 model omy.

5045*	Counter Model	[0 to 2 / 0 / 1 /step] 0: 1 counter (Total) 1: 2 counters (Total and Prints) 2: 2 counters GPC
5045 1	Displays the number of the installed counter.	

	5051	Refill Toner Displ (Refill Toner Detection Display)		
0001	Enables or disables the toner refill detection display.			
	001	Toner Refill Detection Display	CTL	[0 or 1 / 0 /-] 0: ON, 1: OFF

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5055	Display IP address			
001	Display IP address	CTL	Displays or does not display the IP address on the LCD. [0 or 1 / 0 / -] 0: No (Not display), 1: Yes (Display)	

5056	Coverage Counter		
001	Coverage Counter	CTL	Displays or does not display the coverage counter on the LCD. [0 or 1 / 0 / -] 0: Not display, 1: Display

5112	Non-Std. Paper Set (Non-Standard Paper Set)		
001	Determines whether a non-standard paper size can be input for the universal cassette trays (Tray 2, Tray 3) [0 or 1 / 0 / -] 0: No 1: Yes. If "1" is selected, the customer will be able to input a non-standard paper size using the UP mode.		

5113	Optional Counter Type		
001	Optional Counter Type 1	CTL	This program specifies the counter type. 0: None 1: Key card (RK 3, 4) 2: Key card (down) 3 to 10: (Japan only) 11: Exp. Key card (Add) 12: Exp. Key card (Deduct)
002	Optional Counter Type 2	CTL	This program specifies the external counter type. 0: None 1: Expansion Device type 1 2: Expansion Device type 2 3: Expansion Device type 3

5114	Optional Counter I/F	CTL	[0: Not installed/ 1: Installed (scanning accounting)]
001	MF Key Card Ext. Japan use		

5118	Disable Copying	CTL	[0: Not disabled/ 1: Disabled]
001	This program disables copying.		

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5120*	Clear For Count Remove	[0 =Yes / 1=Standby only / 2=No]
5120 1	removed. • 0 = Yes: The settings are expected in the end of a job. • 2 = No: The settings are not expected in the end of a job.	eset the copy job settings when the key counter is cleared when the counter is removed. tings are cleared when the counter is removed at not cleared under either condition. ob settings are always preserved regardless of

5121*	Counter Up Timing	[0 = Feed In / 1 = Exit]
5121 1	Selects the count-up timing • 0 = Feed: At each paper f • 1= Exit: At each paper exit	eed

5127	APS	
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5150	By-pass Long Paper	CTL	[0 = OFF / 1 = ON]
001	Normally the paper length	for sub	sheet from the by-pass tray is used or not. scanning paper from the by-pass tray is extended with this SP to 1260 mm.

	Fax PrintingCnt Off			
5167	Enables or disables the automatic print out without an accounting device. This SP is used when the receiving fax is accounted by an external accounting device.			
001	Fax Printing Counter Off	CTL	[0 or 1 / 0 / –] 0: Automatic printing 1: No automatic printing	

	CE Login			
5169	If you change the printer bit switches, you must 'log in' to service mode with this SP before you go into the printer SP mode.			
001	CE Login	CTL	[0 or 1 / 0 / -] 0: Disabled 1: Enabled	

5188	Copy NV Version		
001	Copy NV Version	CTL	Displays the NVRAM version in the controller board.

5228	Scan Binary Bound	0: 8 bit
5226	(B288 model only)	1: 32 bit

	Set Time			
5302	Adjusts the RTC (real time clock) time setting for the local time zone. Examples: For Japan (+9 GMT), enter 540 (9 hours x 60 min.) DOM: +540 (Tokyo) NA:-300 (New York) EU:+60 (Paris) CH:+480 (Peking) TW:+480 (Taipei) AS:+480 (Hong Kong)			
002	Time Difference CTL # [-1440 to 1440 / Area / 1 min./step]			

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53	307	Summer Time					
	001	ON/OFF	1	[0 or 1 / NA , EU , ASIA / 1 /step] 0: Disabled 1: Enabled NA and EUR: 1, ASIA: 0			
		Enables or disables the summer time mode. Note Make sure that both SP5-307-3 and -4 are correctly set. Otherwise, this SP is not activated even if this SP is set to "1".					
		Start	-	03200210			
>	003	Specifies the start setting for the summer time mode. There are 8 digits in this SP. For months 1 to 9, the "0" cannot be input in the first digit, so the eight-digit setting for -2 or -3 becomes a seven-digit setting. 1st and 2nd digits: The month. [1 to 12] 3rd digit: The week of the month. [1 to 5] 4th digit: The day of the week. [0 to 6 = Sunday to Saturday] 5th and 6th digits: The hour. [00 to 23] 7th digit: The length of the advanced time. [0 to 9 / 1 hour /step] 8th digit: The length of the advanced time. [0 to 5 / 10 minutes /step] For example: 3500010 (EU default) The timer is advanced by 1 hour at am 0:00 on the 5th Sunday in March The digits are counted from the left. Make sure that SP5-307-1 is set to "1".					

		End	-	11100200
\Rightarrow	004	Specifies the end setting for There are 8 digits in this Sill 1st and 2nd digits: The moderate 3rd digit: The week of the result 4th digit: The day of the week 5th and 6th digits: The hour The 7th and 8th digits must be a set of the result	P. Inth. [1 the month. [0 the set in the set	o 12] 0 to 5] 0 6 = Sunday to Saturday] 23] to "00".
	Make sure that SP5-307-1 is set to "1".			

5401	Access Control			
	When installing the SDK application, SAS (VAS) adjusts the following settings. DFU			
006	С	CTL		
016	DS	CTL		
026	F	CTL		
036	S	CTL	SSP: These SPs are not disclosed due to the security	
046	Р	CTL	protection.	
076	SDK 1	CTL		
086	SDK 2	CTL		
096	SDK 3	CTL		
200	SDK1 Unique ID	CTL	This ID is overwritten by SAS (VAS) when you install or uninstall the SDK application.	
201	SDK1 Certification Method	CTL	[0 to 255 / 0 / 1 /step] DFU	

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210	SDK2 Unique ID	CTL	DFU
211	SDK2 Certification Method	CTL	[0 to 255 / 0 / 1 /step] DFU
220	SDK3 Unique ID	CTL	DFU
221	SDK3 Certification Method	CTL	[0 to 255 / 0 / 1 /step] DFU

5404	User Code Clear				
001	Clears the counts for the user codes assigned by the key operator to restrict the use of the machine. Press [Execute] to clear.				

5501	PM Alarm Interval	CTL	-
001	Printout	[0 to 9999 / 0 / 1 /step] 0: Alarm off 1 to 9999: Alarm goes off when the PM counter reaches the specified value (1 to 9999) x 1000.	
002	ADF	[0 or 1 / 1 / −] 0: No alarm sounds 1: Alarm sounds after the number of originals passing through the A(R)DF ≥ 10,000	

5504	Jam Alarm	CTL	-
	not included). [0 to 3 / 3 / 1 /step]		specified jam level (document misfeeds are), 2: Medium (3K jams), 3: High (6K jams)

5505*	Error Alarm
001	Sets the error alarm level. The error alarm counter counts "1" when any SC is detected. However, the error alarm counter decreases by "1" when any SC is not detected during specified sheets of copies (for example, default 1500 sheets). The error alarm occurs when the SC error alarm counter reaches "5". [0 to 255 / 10 / 100 copies per step]

5507	Supply Alarm	CTL	-
001	Paper Size	0 : Off, 1	: On,
003	Toner	0 : Off, 1	: On,
005	Drum	0 : Off, 1	: On,
128	Interval :Others		
132	Interval :A3	[250 to 10000 / 1000 / 1 /step]	
133	Interval :A4		
134	Interval :A5		

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141	Interval :B4	
142	Interval :B5	
160	Interval :DLT	[250 to 10000 / 1000 / 1 /step]
164	Interval :LG	[200 to 100007 10007 176004]
166	Interval :LT	
172	Interval :HLT	

5508*	Auto Call Setting	CTL	-	-	
001*	Jam Remains	0:	0: Disable, 1 : Enable		
	Enables/disables initiating a call for an unattended paper jam.				
002*	Frequent Jams		D	isable, 1 : Enable	
002	Enables/disables initiating a	call fo	or	consecutive paper jams.	
003*	Door Open	0:	D	Disable, 1 : Enable	
000	Enables/disables initiating a call when the front door remains open.				
	Jam Remains: Time	[()3	to 30 / 10 / 1 minute /step]	
011*	Sets the time a jam must remain before it becomes an "unattended paper jam". This setting is enabled only when SP5508 004 is set to 1.				
	Freq Jam: # of Time	[()2	to 10 / 5 / 1 /step]	
012*	Sets the number of consecutive paper jams required to initiate a call. This setting is enabled only when SP5508 004 is set to 1.				
	Door Open: Time	[([03 to 30 / 10 / 1 minute/step]		
013*	Sets the length of time the decall. This setting is enabled only to			pains open before the machine initiates a P5508 004 is set to 1.	

	SC/Alarm Setting	CTL -	
5515	With @Remote in use, these SP codes can be set to issue an SC call when an SC error occurs. If this SP is switched off, the SC call is not issued when an SC error occurs.		
001	SC Call		
002	Service Parts Near End		
003	Service Parts End		
004	User Call	[0 or 1 / 1 / 0: Off, 1: O	
006	Communication Test		
007	Machine Information		
008	Alarm Notice		
010	Supply Automatic Order		
011	Supply Management Report	[0 or 1 / 0 / -] 0: Off,1: On	
012	Jam/Door Open Call	[0 or 1 / 1 /	′ -] 0: Off,1: On
5791	DCS Debug Setting	Note: B288 r	model only.
5792	MCS Debug Switch	Note: B288 model only.	
5793	ECS Debug Switch	Note: B288 r	model only.

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5801	[Memory Clear] Before executing any of these SP codes, print an SMC Report.			
	All Clear			
001	Initializes items SP5801-002 to -014 below. Turn the main power switch off and on after executing this SP.			
003	scs	-	-	
000	Clears the system setting	gs.		
004	ІМН	-	-	
004	Clears IMH data. DFU			
005	MCS	-	-	
000	Clears MCS data. DFU			
006	Copier	1	-	
	Clears the copy application settings.			
007	Fax	ı	-	
007	Clears the fax application settings.			
008	Printer	1	-	
	Clears the printer application settings.			
009	Scanner	1	-	
000	Clears the scanner application settings.			
	GWWS/NFA	-	-	
010	Delete the netfile application management files and thumbnails, and initializes the job login ID.			

	NCS	-	-	
011	Initializes the system default and interface settings (IP address also), SmartNetMonitor for Admin, WebImageMonitor settings, and the TELNET settings. The name of Apple talk is not cleared only if this SP is executed. Turns off and on after executing this SP.			
	R-FAX	-	-	
012	Initializes the job login II storage file numbers.	D, SmartN	letMonitor for Admin, job history, and local	
014	Clear DCS Setting	-	-	
	Initializes the DCS (Deli	very Cont	rol Service) settings.	
015	Clear UCS Setting	-	-	
	Initializes the UCS (User Information Control Service) settings.			
016	MIRS Setting	-	-	
	Initializes the MIRS (Machine Information Report Service) settings.			
017	ccs	-	-	
	Initializes the CCS (Cert	ification a	nd Charge-control Service) settings.	
018	SRM Memory Clr	-	-	
	Initializes the SRM (Sys	tem Reso	urce Manager) settings.	
019	LCS	-	-	
	Initializes the LCS (Log Count Service) settings.			

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Service Program

5802	Machine Free Run [0 or 1 / 0 / -] 0: No, 1: Yes	
5802	1 press "®" key. Press "(run (including the scanner unit). Set "1" and then "" key again to start "Free Run". When this SP is set rates normally even "" key is pressed.

5803	Input Check
	■ "Input Check" in this chapter.

5804	Output Check
	■ "Output Check" in this chapter.

5807*	Area Selection
5807 1	Selects the display language. 2 North America, 3 Europe, 5 Asia, 6 China SP5-807-001 is not cleared by SP5-801-002. NOTE: SC982 is displayed if you specify a language that is inconsistent with your local model.

5811*	Machine No. Setting	
5811 1	■ "Machine No. Setting " in this section.	

5812	Service TEL				
	Telephone	CTL	-		
001	Sets the telephone number for a service representative. This number is printed on the Counter List, which can be printed with the user's "Counter" menu. This can be up to 20 characters (both numbers and alphabetic characters can be input).				
	Facsimile	CTL	-		
002	Sets the fax or telephone number for a service representative. This number is printed on the Counter List. This can be up to 20 characters (both numbers and alphabetic characters can be input).				
	Supply	CTL	-		
003	Use this to input the telephone number of your supplier for consumables. Enter the number and press"StringIn" key. Press the "Clear modes" key to delete the telephone number.				
004	Sales	CTL	-		
	Use this to input the telephone number of your sales agency. Enter the number and press #. Press the "Clear modes" key to delete the telephone number.				

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5816	[NRS Function]	CTL	-	
001	I/F Setting	Selects the remote service setting. [0 to 2 / 2 / 1 /step] 0: Remote service off 1: CSS remote service on 2: @Remote service on		
002	CE Call	Performs the CE Call at the start or end of the service. [0 or 1 / 0 / 1 /step] 0: Start of the service, 1: End of the service In this SP is activated only when SP 5816-001 is set to "2".		
003	Enables or disables the remote service for [0 or 1 / 0 / 1 /step] 0: Disabled, 1: Enabled		0 / 1 /step]	
007	007 SSL Disable		does not use the RCG certification by SSL Iling the RCG. Iling the RCG. In the RCG certification In the RCG certification In the RCG certification	
008	RCG Connect Timeout	the RCG	s the connect timeout interval when calling i. 10 / 1 second/step]	
009	RCG Write Timeout	RCG.	s the write timeout interval when calling the 0 / 60 / 1 second/step]	
010	RCG Read Timeout	RCG.	s the read timeout interval when calling the 0 / 60 / 1 second/step]	

011	Port 80	Enables/disables access via port 80 to the SOAP method. [0 or 1 / 0 / –] 0: Disabled, 1: Enabled	
	Function Flag		
021	This SP displays the embedded RCG installation end flag. 1: Installation completed 2: Installation not completed		
	Install Status		
022	This SP displays the RCG device installation status. 0: RCG device not registered 1: RCG device registered 2: Device registered		
	Connect Mode (N/M)		
This SP displays and selects the embedded RCG connection method 1: Dial-up connection		lects the embedded RCG connection method.	
061	NotiTime ExpTime DFU		
	Proximity of the expiration of the certification.		
	HTTP Proxy Use		
062	This SP setting determine communicates with the	nes if the proxy server is used when the machine service center.	

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HTTP Proxy Host This SP sets the address of the proxy server used for communication between embedded RCG-N and the gateway. Use this SP to set up or display the customer proxy server address. The address is necessary to set up embedded RCG-N. 063 **U** Note The address display is limited to 127 characters. Characters beyond the 127th character are ignored. This address is customer information and is not printed in the SMC report. **HTTP Proxy Port Number** This SP sets the port number of the proxy server used for communication between embedded RCG N and the gateway. This setting is necessary to set 064 up embedded RCG-N. ↓ Note This port number is customer information and is not printed in the SMC report. HTTP Proxy Aut Usr This SP sets the HTTP proxy authentication user name. ↓ Note 065 The length of the name is limited to 31 characters. Any character beyond the 31st character is ignored. This name is customer information and is not printed in the SMC report. **HTTP Proxy Aut Pass** This SP sets the HTTP proxy authentication password. **U** Note 066 The length of the password is limited to 31 characters. Any character beyond the 31st character is ignored. This name is customer information and is not printed in the SMC report.

	Cer Updt Cond			
	Displays the status of the certification update.			
	0	The certification used by embedded RCG is set correctly.		
	1	The certification request (setAuthKey) for update has been received from the GW URL and certification is presently being updated.		
	2	The certification update is completed and the GW URL is being notified of the successful update.		
	3	The certification update failed, and the GW URL is being notified of the failed update.		
	4	The period of the certification has expired and a new request for an update is being sent to the GW URL.		
067	11	A rescue update for certification has been issued and a rescue certification setting is in progress for the rescue GW connection.		
	12	The rescue certification setting is completed and the GW URL is being notified of the certification update request.		
	13	The notification of the request for certification update has been completed successfully, and the system is waiting for the certification update request from the rescue GW URL		
	14	The notification of the certification request has been received from the rescue GW controller, and the certification is being stored.		
	15	The certification has been stored, and the GW URL is being notified of the successful completion of this event.		
	16	The storing of the certification has failed, and the GW URL is being notified of the failure of this event.		

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67	17	The certification update request has been received from the GW URL, the GW URL was notified of the results of the update after it was completed, but a certification error has been received, and the rescue certification is being recorded.	
	18	The rescue certification of No. 17 has been recorded, and the GW URL is being notified of the failure of the certification update.	
	Cer /	Abnml Cause	
		lays a number code that describes the reason for the request for update e certification.	
	0	Normal. There is no request for certification update in progress.	
	1	Request for certification update in progress. The current certification has expired.	
068	2	An SSL error notification has been issued (after the certification has expired).	
	3	Notification of shift from a common authentication to an individual certification.	
	4	Notification of a common certification without ID2.	
	5	Notification that no certification was issued.	
	6	Notification that GW URL does not exist.	
069	Cert: Updtt ReqID		
	The ID of the request for certification.		
083	Firm	Updating	
	Disp	lays the status of the firmware update.	

	Firm UpFlg No HDD
084	This setting determines if the firmware can be updated, even without the HDD installed.
	Firm Up Usr Conf
085	This SP setting determines if the operator can confirm the previous version of the firmware before the firmware update execution. If the option to confirm the previous version is selected, a notification is sent to the system manager and the firmware update is done with the firmware files from the URL.
	Firmware Size
086	Allows the service technician to confirm the size of the firmware data files during the firmware update execution.
087	CERT: Macro Version
001	Displays the macro version of the @Remote certification.
088	CERT: PAC Version
	Displays the PAC version of the @Remote certification.
	CERT: ID2 Code
089	Displays ID2 for the @Remote certification. Spaces are displayed as underscores (_). Asterisks (*) indicate that no @Remote certification exists.
	CERT: Subject
090	Displays the common name of the @Remote certification subject. CN = the following 17 bytes. Spaces are displayed as underscores (_). Asterisks (*) indicate that no DESS exists.
	CERT: Serial Number
091	Displays serial number for the @Remote certification. Asterisks (*) indicate that no DESS exists.

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	CERT: Issuer
092	Displays the common name of the issuer of the @Remote certification. CN = the following 30 bytes. Asterisks (*) indicate that no DESS exists.
	CERT: St ExpTime
093	Displays the start time of the period for which the current @Remote certification is enabled.
	CERT: End ExpTime
094	Displays the end time of the period for which the current @Remote certification is enabled.
	Ins Country
150	Select from the list the name of the country where embedded RCG-M is installed in the machine. After selecting the country, you must also set the following SP codes for embedded RCG-M: SP5816-153 SP5816-154 SP5816-161 USA, 2: Canada, 3: UK, 4: Germany, 5: France Italy, 7: Netherlands, 8: Belgium, 9: Luxembourg, 10: Spain
	Aut Line Detect
151	Press [Execute]. Setting this SP classifies the telephone line where embedded RCG-M is connected as either dial-up or push type, so embedded RCG-M can automatically distinguish the number that connects to the outside line. The current progress, success, or failure of this execution can be displayed with SP5816 152. If the execution succeeded, SP5816 153 will display the result for confirmation and SP5816 154 will display the telephone number for the connection to the outside line.

Line Detect Rst

Displays a number to show the result of the execution of SP5816 151. Here is a list of what the numbers mean.

- 0: Success
- 1: In progress (no result yet). Please wait.
- 152 2: Line abnormal
 - 3: Cannot detect dial tone automatically
 - 4: Line is disconnected
 - 5: Insufficient electrical power supply
 - 6: Line classification not supported
 - 7: Error because fax transmission in progress ioctl() occurred.
 - 8: Other error occurred
 - 9: Line classification still in progress. Please wait.

Dial/Push Select

This SP displays the classification (tone or pulse) of the telephone line to the access point for embedded RCG-M. The number displayed (0 or 1) is the result of the execution of SP5816 151. However, this setting can also be changed manually.

153 [0 to 1 / **0** / 1 /step]

- 0: Tone Dialing Phone
- 1: Pulse Dialing Phone

Inside Japan "2" may also be displayed:

- 0: Tone Dialing Phone
- 1: Pulse Dialing Phone 10PPS
- 2: Pulse Dialing Phone 20PPS

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	Outline Phone #
154	The SP sets the number that switches to PSTN for the outside connection for embedded RCG-M in a system that employs a PBX (internal line). If the execution of SP5816-151 has succeeded and embedded RCG-M has connected to the external line, this SP display is completely blank. If embedded RCG-M has connected to an internal line, then the number of the connection to the external line is displayed. If embedded RCG-M has connected to an external line, a comma is displayed with the number. The comma is inserted for a 2 sec. pause. The number setting for the external line can be entered manually (including commas).
155	Remove Service: PPP Recognition Timeout SSP: Sets the length of the timeout for the embedded RCG-M connection to its access point. The timeout is the time from when the modem sends the ATD to when it receives the result code. [1 to 65536 / 60 / 1 /step]
156	Dial Up User Use this SP to set a user name for access to remote dial up. Follow these rules when setting a user name: Name length: Up to 32 characters Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").
157	Dial Up Password Use this SP to set a password for access to remote dial up. Follow these rules when setting a user name: Name length: Up to 32 characters Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").

	Phone Number
161	Use this SP to set the telephone number of the line where embedded RCG-M is connected. This number is transmitted to and used by the Call Center to return calls. Limit: 24 numbers (numbers only)
	Ans Timing Adj
162	When the Call Center calls out to a embedded RCG-M modem, it sends a repeating ID tone (*#1#). This SP sets the time the line remains open to send these ID tones after the number of the embedded RCG-M modem is dialed up and connected. [0 to 24/1/1/step] The actual amount of time is this setting + 2 sec. For example, if you set "2" the line will remain open for 4 sec.
	Access Point
163	This is the number of the dial-up access point for embedded RCG-M. If no setting is done for this SP code, then a preset value (determined by the country selected) is used. Default: 0 Allowed: Up to 16 alphanumeric characters
	Comm Line
164	This SP sets the connection conditions for the customer. This setting dedicates the line to embedded RCG-M only, or sets the line for sharing between embedded RCG-M and a fax unit. [0 or 1 / 0 / -] 0: Line shared by embedded RCG-M/Fax 1: Line dedicated to embedded RCG-M only Note If this setting is changed, the copier must be cycled off and on. SP5816 187 determines whether the off-hook button can be used to interrupt an embedded RCG-M transmission in progress to open the
	line for fax transaction.

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173	Modem Serial Number
	This SP displays the serial number registered for the embedded RCG-M.
	Lmt Resend Cncl
174	Normally, it is best to allow unlimited time for certification and ID2 update requests, and for the notification that the certification has been completed. However, embedded RCG-M generates charges based on transmission time for the customer, so a limit is placed upon the time allowed for these transactions. If these transactions cannot be completed within the allowed time, do this SP to cancel the time restriction.
	FAX TX Priority
187	This SP determines whether pushing the off-hook button will interrupt an embedded RCG-M transmission in progress to open the line for fax transaction. This SP can be used only if SP5816-164 is set to "0". [0 or 1/ 0 / -] 0: Disable. Setting the fax unit off-hook does not interrupt a fax transaction in progress. If the off-hook button is pushed during a embedded RCG-M transmission, the button must be pushed again to set the fax unit on-hook after the embedded RCG-M transmission has completed. 1: Enable. When embedded RCG-M shares a line with a fax unit, setting the fax unit off-hook will interrupt a embedded RCG-M transmission in progress and open the line for a fax transaction.
200	Polling Man Exc
-	Executes the polling test.

	Instl: Condition
201	Displays a number that indicates the status of the @Remote service device. 0: Neither the registered device by the external RCG nor embedded RCG device is set. 1: The embedded RCG device is being set. Only Box registration is completed. In this status the this unit cannot answer a polling request from the external RCG. 2: The embedded RCG device is set. In this status the external RCG unit
	cannot answer a polling request. 3: The registered device by the external RCG is being set. In this status the embedded RCG device cannot be set. 4: The registered module by the external RCG has not started.
202	Instl: ID#
202	Allows entry of the number of the request needed for the embedded RCG.
203	Instl: Reference
	Executes the inquiry request to the @Remote GateWay URL.
	Instl: Ref Rslt
	Displays a number that indicates the result of the inquiry executed with SP5816-203.
204	0: Succeeded 1: Inquiry number error 2: Registration in progress 3: Proxy error (proxy enabled) 4: Proxy error (proxy disabled) 5: Proxy error (Illegal user name or password) 6: Communication error 7: Certification update error
	8: Other error 9: Inquiry executing

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	Instl: Ref Section			
205	Displays the result of the notification sent to the device from the GW URL in answer to the inquiry request. Displayed only when the result is registered at the GW URL.			
206	Instl: Rgstltn			
200	Executes Embedd	led RCG F	Registration.	
	Instl: Rgstltn Rst			
207	Displays a number that indicates the registration result. 0: Succeeded 2: Registration in progress 3: Proxy error (proxy enabled) 4: Proxy error (proxy disabled) 5: Proxy error (Illegal user name or password) 6: Communication error 7: Certification update error 8: Other error 9: Registration executing			
	Instl Error Code			
	Displays a number that describes the error code that was issued when either SP5816 204 or SP5816 207 was executed.			
	Cause	Code	Meaning	
	III a sal Madaga	-11001	Chat parameter error	
208	Illegal Modem Parameter	-11002	Chat execution error	
		-11003	Unexpected error	
	Operation Error, Incorrect Setting -12002 -12003		Inquiry, registration attempted without acquiring device status.	
			Attempted registration without execution of an inquiry and no previous registration.	

		-12004	Attempted setting with illegal entries for certification and ID2.	
		-2385	Attempted dial up overseas without the correct international prefix for the telephone number.	
		-2387	Not supported at the Service Center	
		-2389	Database out of service	
		-2390	Program out of service	
208	Error Caused by Response from GW URL	-2391	Two registrations for same device	
		-2392	Parameter error	
		-2393	External RCG not managed	
		-2394	Device not managed	
		-2395	Box ID for external RCG is illegal	
		-2396	Device ID for external RCG is illegal	
		-2397	Incorrect ID2 format	
		-2398	Incorrect request number format	
209	Instl Clear			
	Releases a machine from its embedded RCG setup.			
250	Print Com Log			
	Prints the communication log.			

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5821	NRS Address	
001	CSS-PI Device Sets the PI device code. After you change this setting, you must turn the machine off and on.	
002	RCG IP Address	Sets the IP address of the RCG (Remote Communication Gate) destination for call processing at the remote service center. [00000000h to FFFFFFFh / 1 /step]

5	824	NVRAM Upload
	5824 1	■ "NVRAM Upload/Download" in this section.

5825	NVRAM Download
5825 1	■ "NVRAM Upload/Download" in this section.

5828	Network Setting	CTL		
050	1284 Compatibility (Centro)	Enables or disables 1284 Compatibility. [0 or 1 / 1 / 1 / step] 0: Disabled, 1: Enabled		
052	ECP (Centro)	Enables or disables ECP Compatibility. [0 or 1 / 1 / 1 / step] 0: Disabled, 1: Enabled NOTE: This SP is activated only when SP5-828-50 is set to "1".		
065	Job Spooling	Enables/disables Job Spooling. [0 or 1 / 0 / 1 / step] 0: Disabled, 1: Enabled		

066	Job Spooling Clear: Start Time	Treatment of the job when a spooled job exists at power on. 0: ON (Data is cleared) 1: OFF (Automatically printed)	
069	Job Spooling (Protocol)	Validates or invalidates the job spooling function for each protocol. 0: Validates 1: Invalidates bit0: LPR bit1: FTP bit2: IPP bit3: SMB bit4: BMLinkS bit5: DIPRINT bit6: (Reserved) bit7: (Reserved)	
090	TELNET (0: OFF 1: ON)	Enables or disables the Telnet protocol. [0 or 1 / 1 / -] 0: Disable, 1: Enable	
091	Web (0: OFF 1: ON)	Enables or disables the Web operation. [0 or 1 / 1 / -] 0: Disable, 1: Enable	
	Active IPv6 Link		
145	This is the IPv6 local address link referenced on the Ethernet or wireless Local (802.11b) in the format: "Link Local Address" + "Prefix Length" The IPv6 address consists of a total of 128 bits configured in 8 blocks of 16 bits each.		

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147	Active IPv6 Status Address 1		
149	Active IPv6 Status Address 2	These SPs are the IPv6 status addresses (1 to 5) referenced on the Ethernet or wireless LAN	
151	Active IPv6 Status Address 3	(802.11b) in the format: "Status Address" + "Prefix Length" The ID: 6 address consists of a total of 138 hits.	
153	Active IPv6 Status Address 4	The IPv6 address consists of a total of 128 bits configured in 8 blocks of 16 bits each.	
155	Active IPv6 Status Address 5		
	IPv6 Manual Setting Address		
156	This SP is the IPv6 manually set address referenced on Ethernet or wireless LAN (802.11b) in the format: "Manual Set Address" + "Prefix Length" The IPv6 address consists of a total of 128 bits configured in 8 blocks of 16 bits each.		
	IPv6 Gateway Address		
158	This SP is the IPv6 gateway address referenced on Ethernet or wireless LAN (802.11b). The IPv6 address consists of a total of 128 bits configured in 8 blocks of 16 bits each.		

5840	IEEE 802.11b				
	Channel MAX	CTL	[1 to 11 or 13 / 11 or 13 / 1 /step] Europe: 1 to 13, default: 13 NA/ Asia: 1 to 11, default: 11		
006	Sets the maximum number of channels available for data transmission via wireless LAN. The number of channels available varies according to location. The default settings are set for the maximum end of the range for each area. Adjust the upper 4 bits to set the maximum number of channels. DFU Note Do not change the setting.				
	Channel MIN	CTL	[1 to 11 or 13 / 1 / 1 /step] Europe: 1 to 13 NA/ Asia: 1 to 11		
007	wireless LAN. The number of char The default settings are set for the		nnels available for data transmission via the nnels available varies according to location. e minimum end of the range for each area. ninimum number of channels. DFU		
011	WEP Key Select	CTL	[00 to 11 / 00 / 1 binary] 00: Key #1 01: Key #2 (Reserved) 10: Key #3 (Reserved) 11: Key #4 (Reserved)		
	Selects the WEP key.				

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5842	GWWS Analysis DFU		
	Setting 1	CTL	
		Bit	Groups
		0	System & other groups (LSB)
		1	Capture related
001	This is a debugging tool. It sets	2	Certification related
001	the debugging output mode of each Net File process. Default: Bit SW 1000 0000	3	Address book related
		4	Machine management related
		5	Output related (printing, delivery)
		6	Repository related
		7	Debug log output
	Setting 2	CTL	
	Default: Bit SW 0000 0000	Bit	Groups
002		0-6	Not used
		7	Log time stamp setting 0: Date/Hour/Minute/Second 1: Minute/Second/Msecond

5844	USB		
	Transfer Rate	CTL	
001	Sets the speed for USB data tra [Full Speed] [Auto Change]	ansmiss	sion.

	Vendor ID	CTL		
002	Sets the vendor ID: Initial Setting: 0x05A Ricoh Cor [0x0000 to 0xFFFF/1] DFU	mpany		
	Product ID	CTL		
003	Sets the product ID. [0x0000 to 0xFFFF/1] DFU			
	Device Release No.	CTL		
004	Sets the device release number of the BCD (binary coded decimal) display. [0000 to 9999/1] DFU Enter as a decimal number. NCS converts the number to hexadecimal number recognized as the BCD.			

5845	Delivery Server Setting	CTL	-	
33.3	Provides items for delivery se	erver s	ettings.	
001	FTP Port Num	[0 to	65535 / 3670 / 1 /step]	
001	Sets the FTP port number us	sed whe	en image files to the Scan Router Server.	
	Srv IP (Primary)	Rang	ge: 000.000.000.000 to 255.255.255.255	
002	Use this SP to set the Scan Router Server address. The IP address under the transfer tab can be referenced by the initial system setting.			
	Retry Interval	[60 to	o 999 / 300 / 1 second /step]	
003	Specifies the interval time for sending the scanned image data to the deliver server or SMTP/FTP/NCP/SMB server after sending error.			
	Number of Retries	[0 to	99 / 3 / 1 time/step]	
004	Specifies the retry times for sending the scanned image data to the deliver server or SMTP/FTP/NCP/SMB server after sending error.			

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	Delivery Error Display Time	[0 to 999 / 300 / 1 s	econd /step]	
006	Use this setting to determine the length of time the prompt message is displayed when a test error occurs during document transfer with the NetFile application and an external device.			
	Srv IP (Secondary)	Range: 000.000.00	0.000 to 255.255.255.255	
008	Specifies the IP address assigned to the computer designated to function as the secondary delivery server of Scan Router. This SP allows only the setting of the IP address without reference to the DNS setting.			
	Delivery Server Model	[0 to 4 / 0 / 1 /step]		
009	Allows changing the model of the delivery server registered by the I/O device 0: Unknown, 1: SG1 Provided, 2: SG1 Package, 3: SG2 Provided, 4: SG2 Package			
	Delivery Svr Capability	[0 to 255 / 0 / 1 /step]		
	Bit7 = 1 Comment information exits			
	Bit6 = 1 Direct specification of mail address possible		Changes the capability of the server that is registered as an I/O device.	
	Bit5 = 1 Mail RX confirmation setting possible			
010	Bit4 = 1 Address book automa			
	Bit3 = 1 Fax RX delivery funct			
	Bit2 = 1 Sender password fun	ction exists	device.	
	Bit1 = 1 Function to link MK-1 user and Sender exists			
	Bit0 = 1 Sender specification required (if set to 1, Bit6 is set to "0")			

	Delivery Svr Capability (Ext)	[0 to 255 / 0 / 1 /step]			
	Changes the capability of the server that is registered as an I/O device.				
011	Bit7 = 1 Address book usage limitation (Limitation for each authorized user) Bit6 = 1 RDH authorization link Bit5 to 0: Not used				
013	Svr Schm (Primary)	-			
010	Specifies the scheme of the p	rimary delivery server.			
014	Svr Port Num (Pri)	-			
014	Specifies the port number of t	he primary delivery server.			
015	Srv URL Path (Pri)	-			
3.0	Specifies the URL path of the primary delivery server.				
016	Svr Schm (Sec)	-			
	Specifies the scheme of the s	econdary delivery server.			
017	Svr Port Num (Sec)	-			
J.1	Specifies the port number of t	he secondary delivery server.			
018	Srv URL Path (Sec)	-			
	Specifies the URL path of the	secondary delivery server.			
019	CapSvr Schm	-			
0.0	Specifies the scheme of the capture server.				
020	CapSvr Port Num	-			
320	Specifies the port number of t	he capture server.			
021	CapSrv URL Path	-			
021	Specifies the URL path of the	s capture server.			

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	022	Rapid-fire Send	[0 or 1 / 1 / -] 0: Disable, 1: Enable
Enables or disables the prevention function for the continuous da		ention function for the continuous data sending.	

5846	UCS Settings	CTL	
0040	Provides items for delive	ry server settings.	
	Machine ID (Delivery Server)	Displays ID	
001	Displays the unique device ID in use by the delivery server directory. The value is only displayed and cannot be changed. This ID is created from the NIC MAC or IEEE 1394 EUI. The ID is displayed as either 6-byle or 8-byte binary.		
	Machine ID Clear (Delive Server)	Clears ID	
002	Clears the unique ID of the device used as the name in the file transfer directory. Execute this SP if the connection of the device to the delivery server is unstable. After clearing the ID, the ID will be established again automatically by cycling the machine off and on.		
	Maximum Entries	[150 to 999 / 150 / 1 /step]	
003	Changes the maximum number of entries that UCS can handle. If a value smaller than the present value is set, the UCS managed data is cleared, and the data (excluding user code information) is displayed.		
006	Delivery Server Retry Timer	[0 to 255 / 0 / 1 /step]	
	Sets the interval for retry attempts when the delivery server fails to acquire the delivery server address book.		

007	Delivery Server Retry Times	[0 to 255 / 0 / 1 /step]	
	Sets the number of retry atte	empts when the delivery server fails to acquire book.	
008	Delivery Server Maximum Entries	[200 to 999 / 200 / 1/step]	
	Sets the maximum number information managed by UC	account entries of the delivery server user	
010	LDAP Search Timeout	[1 to 255 / 60 / 1 /step]	
0.0	Sets the length of the timeo	ut for the search of the LDAP server.	
	[AddrB Acl Info] Address Bo	ok Access Control List Information	
041	This SP must be executed immediately after installation of an HDD unit in a basic machine that previously had no HDD. The first time the machine is powered on with the new HDD installed, the system automatically takes the address book from the NVRAM and writes it onto the new HDD. However, the new address book on the HDD can be accessed only by the system administrator at this stage. Executing this SP by the service technician immediately after power on grants full address book access to all users.		
	Addr B Mig (SD \rightarrow SD)	[0 to 10 / 0 / 1 /step] 0: Not decided yet 1: Slot 1 to 10: Slot 10	
042	This SP copies an address book data in a SD card to another SD card. Select the destination slot where you want to move an address book data, and then press "Execute" key. You can check where an address book data is in with SP5-846-043.		
043	Addr B Media		
040	Displays the slot number where an address book data is in.		

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047	Initialize Local Addr Book	Clears the local address book information, including the user code.
048	Initialize Delivery Addr Book	Clears the distribution address book information, except the user code.
049	Initialize LDAP Addr Book	Clears the LDAP address book information, except the user code.
050	Initialize All Addr Book	Clears all directory information managed by UCS, including all user codes. Turn the main power switch off and on after executing this SP.
051	Backup All Addr Book	Uploads all directory information to the SD card.
052	Restore All Addr Book	Downloads all directory information from the SD card.
053	Clear Backup Info	Deletes the address book data from the SD card in the service slot. Deletes only the files that were uploaded from this machine. This feature does not work if the card is write-protected. Note: After you do this SP, go out of the SP mode, and then turn the power off. Do not remove the SD card until the Power LED stops flashing.
060	Search Option	This SP uses bit switches to set up the fuzzy search options for the UCS local address book. Bit0: Checks both upper/lower case characters Bit1: Japan only Bit2 to 7: Not used

062	Compl Opt1 ⁽¹⁾	Use this SP to set the conditions for password entry to access the local address book. Specifically, this SP limits the password entry to upper case and sets the length of the password. [0 to 32 / 0 / 1 /step]
063	Compl Opt2 ⁽¹⁾	Use this SP to set the conditions for password entry to access the local address book. Specifically, this SP limits the password entry to lower case and defines the length of the password. [0 to 32 / 0 / 1 /step]
064	Compl Opt3 ⁽¹⁾	Use this SP to set the conditions for password entry to access the local address book. Specifically, this SP limits the password entry to numbers and defines the length of the password. [0 to 32 / 0 / 1 /step]
065	Compl Opt4 ⁽¹⁾	Use this SP to set the conditions for password entry to access the local address book. Specifically, this SP limits the password entry to symbols and defines the length of the password. [0 to 32 / 0 / 1 /step]
091	FTP Auth Port Setting	Specifies the FTP port for getting a distribution server address book that is used in the identification mode. [0 to 65535 / 3671 / 1 /step]
094	Encryption Stat	Shows the status of the encryption function for the address book data.

Note (1):

SP5846-062 to SP5846-065 do not normally require adjustment.

These SP modes are enabled only after the system administrator has set up a group password policy to control access to the address book.

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	Web Service	CTL	-	
5848	SP5848-1 sets the 4-bit switch assignment for the access control setting. Setting of 0001 has no effect on access and delivery from Scan Router. ac: Access Control			
001	ac: Netfile (only Lower 4 bits)			
004	ac: UD (only Lower 4 bits)			
005	ac: For Cherry (only Lower 4 bits)		nes access control on and off.	
007	ac: Log Fax (Lower 4 bits)		No access control Denies access to DeskTop Binder.	
009	ac: Job Ctrl (Lower 4 bits)	Joseph Defines access to Deskrop Billidel.		
011	ac: Device Management (Lower 4 bits)			
022	ac: Uadmin (Lower 4bits)			
210	Log Type: Job1			
211	Log Type: Job2			
212	Log Type: Access		ys the log server settings.	
213	Primary Srv	These can be adjusted with the Web Imag Monitor.	,	
214	Secondary Srv			
215	Start Time			
216	Interval Time	[1 to 1 This S	ies the transmit interval. 000 / 1 / 1 hour/step] P is activated only when SP5848-217 is "2 (Transmit periodically)".	

217 Timing		Selects the transmit timing.
	Timing	[0 to 2 / 0 / 1/step]
	Tilling	0: No Transmit, 1: Transmit one by one
		2: Transmit periodically

5849 Installation Date CTL Displays or prints the installation date of the		Installation Da	ite	CTL	
		te of the machine.			
00	01	Display The "Counter Clear Day" has been changed to "Installation Date" or "Inst. Date".			
00	02	Print	Determines whether the installation date is printed on the printout for the total counter. [0 or 1/ 1 / 1/step] 0: Off (No Print), 1: On (Print)		
00	03	Total Counter	Displays the total counter when the installation date is registered to the machine.		

5851	Bluetooth		
001	Mode	CTL	Sets the operation mode for the Bluetooth Unit. Press either key. 1 :Public, 1: Private

	Remote ROM Update			
5856	Allows the technician to upgrade the firmware using a parallel cable when updating the remote ROM.			
002	Local Port	CTL	[0 or 1 / 0 / 1/step] 0 : Disallow 1: Allow	

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5857	Debug Log Save	CTL	-		
001	ON/OFF	0: OFF, 1: ON			
	Switches the debug log feature on and off. The debug log cannot be captured until this feature is switched on.				
006	Save to SD Card				
	Specifies the debug log number for saving to an SD card.				
012	Erase SD Debug				
	Erases SD debug logs in the SD card. Turn off and on after executing this SP.				
013	Dsply-SD Space				
	Displays the remaining space in the SD card.				
014	SD to SD Latest (Latest 4 MB)				
	Saves the debug log (latest 4 MB) in memory to the SD card. A unique file name is generated to avoid overwriting existing file names on the SD card. Up to 4MB can be copied to the SD card. 4 MB segments can be copied one by one to the SD card.				
015	SD to SD Any (Latest 4 MB Any Key)				
	Saves the specified debug log (with SP5-857-006) in memory to the SD card. A unique file name is generated to avoid overwriting existing file names on the SD card. Up to 4MB can be copied to the SD card. 4 MB segments can be copied one by one to the SD card.				
017	Make SD Debug				
	Executes the making of a file (4MB) for saving debug logs.				

	Debug Log Save: SC	CTL	-
5858	These SPs select the content of the debugging information to be saved to destination selected by SP5857-2. SP5858-3 stores one SC specified by number. Refer to the chapter "Troub Shooting" for a list of SC error codes.		
001	Engine SC	generate	e save function on/off for SC codes ed by copier engine errors. 0 / 1/ step] 1: ON
002	Controller SC	generate	e save function on/off for SC codes ed by GW controller errors. 0 / 1/ step] 1: ON
003	Any SC	[0 to 65	535 / 0 / 1 /step]
004	Jam		e save function on/off for jam errors. 0 / 1/ step] 1: ON

5859	Debug Log Save Key	CTL	-		
001	Key 1				
002	Key 2	These SPs allow you to set up to 10 keys for log file for functions that use common memory on the			
003	Key 3				
004	Key 4	controller board. [–9999999 to 9999999 / 0 / –]			
005	Key 5	[-3333333 to 3333337 0 7 -]			
006	Key 6				

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007	Key 7	
800	Key 8	
009	Key 9	
010	Key 10	

5860	SMTP/POP3/IMAP4	CTL	-		
	Partial Mail Receive Time	out		[1 to 168 / 72 / 1 hour/step]	
020	reception. The received m	ts the amount of time to wait before saving mail that breaks up during eption. The received mail is discarded if the remaining portion of the mail is received during this prescribed time.			
	MDN Response RFC2298	3 Compl	iance	[0 to 1 / 1 / –]	
021	Determines whether RFC: 0: No, 1: Yes	2298 co	mplianc	e is switched on for MDN reply mail.	
	SMTP Auth. From Field R	eplacen	nent	[0 to 1 / 0 / —]	
022	Determines whether the FROM item of the mail header is switched to the validated account after the SMTP server is validated. 0: No. "From" item not switched. 1: Yes. "From" item switched.				
	SMTP Auth. Direct Setting			[0 or 1 / 0 / –]	
025	Selects the authentication method for SMPT. Bit switch: Bit 0: LOGIN Bit 1: PLAIN Bit 2: CRAM MD5 Bit 3: DIGEST MD5 Bit 4 to 7: Not used This SP is activated only when SMTP authorization is enabled by UP mode.				

5866	E-mail Report			
001	Report Validity	-	[0 or 1 / 0 / –] 0: Enabled, 1: Disabled	
	Enables or disables the E-mail alert function.			
005	Add Date Field	CTL	[0 or 1 / 0 / –] 0: Not add, 1: Add	
	Adds or does not add the date field to the header of the alert mail.			

5869	RAM Disk Setting		
001	Mail Function	GWINIT	[0 or 1 / 0 / -] 0: ON, 1: OFF
	Turns on or off the e-mail function.		
002	PDL Storage	GWINIT	[0 to 255 / 4 / 1 /step]
002	Specifies the RAM disk storage size for PDL.		

5870	Common Key Info Writing		
001	Writing	CTL	Writes to flash ROM the common proof for validating the device for @Remote specifications.
003	Initialize	CTL	Formats the common proof area of the flash ROM. FA

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5875	SC Auto Reboot		
001	Reboot Mode	CTL	Enables or disables the automatic reboot function when an SC error occurs. [0 or 1 / 0 / -] 0: The machine reboots automatically when the machine issues an SC error and logs the SC error code. If the same SC occurs again, the machine does not reboot. 1: The machine does not reboot when an SC error occurs. The reboot is not executed for Type A, B or C SC codes.
002	Reboot Method	CTL	Selects the reboot method for SC. [0 or 1 / 0 / -] 0: Manual reboot, 1: Automatic reboot

5878	Option Setup		
001	Option Setup	-	Enables the Data Overwrite Security unit. Press "EXECUTE" on the operation panel. Then turn the machine off and on.

5881	Delete Fixed Sent		
001	Delete Fixed Sent	-	Deletes the fixed form sentence.

5886	Permit ROM Update DFU
001	This SP determines whether the ROM can be updated. [0 or 1 / 0 / 1/step] 0: Yes, 1: No

5887	SD GetCounter SSP
001	This SP saves the counter list of the machine to an SD card in the slot 3. The folder of "SD_COUNTER" must be made in an SD card for this SP.

5902	Test Pattern Print	
5902 1	02 1 - "Test Pattern Print" in this section.	

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5907*	Plug & Play Setting	
5907 1	Selects the brand name and production name for the Plug and Play function. These names are stored in the NVRAM. When the NVRAM data is corrupted, select these names once again. Use the right-arrow or left-arrow key to scroll through the list of brand names. To select a brand name, press the OK key. An asterisk (*) indicates which manufacture is currently selected.	

5912*	PCU Alarm Counter (Printout)	[0 to 255 / 45 / 1/step]
5912 1	condition is met: PAc x 1000 >= PCUc	I. The PCU alarm is issued when the following lied in this SP and PCUc is the PCU counter. e PCU alarm is deactivated.

5913	Switch Permission	
	Print Application Timer	
002	Sets the length of time to elapse before allowing another application to take control of the display when the application currently controlling the display is not operating because a key has not been pressed. [3 to 30 / 3 / 1 second/step]	

5970	Debug Output	Note: B288 model only.
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5974	Cherry Server	
001	Selects which version of the Scan Router application program, "Light" or "Full (Professional)", is installed. [0 to 1 / 0 / 1 /step] 0: Light version (supplied with this machine) 1: Full version (optional)	

	Device Setting		
5985	SP to enable and disable these features. In order to use the NIC and USE		
001	functions built into the controller board, these SP codes must be set to "1". [0 to 2 / 0 / 1 /step] 0: OFF, 1: ON, 2: ON: Limited When the "Function limitation" is set, "On board NIC" is limited only for the @Remote or LDAP/NT authentication. Other network applications than @Remote or LDAP/NT authentication are not available when this SP is set to "2". Even if you can change the initial settings of those network applications, settings may not actually work.		
002	On Board USB	[0 or 1 / 0 / 1/step] 0: OFF, 1: ON	

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	SP Print Mode	SMC Print
In the SP mode, press Copy Window to move to the copy screen, select paper size, then press Start. Select A4/LT (Sideways) or larger to ensur all the information prints. Press SP Window to return to the SP mode, so the desired print, and press "EXECUTE".		4/LT (Sideways) or larger to ensure that indow to return to the SP mode, select
001	All (Data List)	
002	SP (Mode Data List)	
003	User Program Data	
004	Logging Data	
005	Diagnostic Report	
006	Non-Default (Prints only SPs set to values other than defaults.)	
007	NIB Summary	
021	Copier User Program	
022	Scanner SP	
023	Scanner User Program	

5998	Memory Clear	
001	See the section "Memory Clear" in this chapter.	

SP6-XXX (Peripherals)

6006*	ADF Adjustment ("DF Image Adjustment" in the "Adjusting Copy Image Area") NOTE: Available menus depend on the machine model and its configuration.		
	StoS/Front Regist	[-5.0 to +5.0 / 0.0 / 0.1 mm/step]	
6006 1	Adjusts the side-to-side registration mode. Use the key to select "+" of the larger than th	for the front side of the original, for ARDF or "-" before entering the value	
	Leading Regist	[-5.0 to +5.0 / 0.0 / 0.1 mm/step]	
6006 2	Adjusts the leading edge registration for ARDF mode. Use the key to select "+" or "−" before entering the value.		
	Trailing Erase	[-3.0 to +3.0 / -1.5 / 0.1 mm/step]	
6006 3	Adjusts the trailing edge erase margin for ARDF mode. Use the leg key to select "+" or "-" before entering the value.		
	S to S/ Rear Regist	[-5.0 to +5.0 / 0.0 / 0.1 mm/step]	
6006 4	Adjusts the side-to-side registration for the 2nd side of the original, for ARDF mode. Use the key to select "+" or "–" before entering the value		
6006 5	Sub-scan Magnif	[-0.9 to +0.9 / 0.0 / 0.1 %/step]	
0000 0	Adjusts the sub-scan magnification for the ARDF.		
	Origin Curl Adj	[0 = No / 1 = Yes]	
6006 6	Turns on or off the skew correction at 2nd side scanning. This SP is activated only when the duplex mode is selected.		
	Skew Correction	[-20 to +20 / 0.0 / 1 mm/step]	
6006 7	Adjusts the original buckle for the skew correction at 2ns side scanning. This SP is activated only when SP6-006-006 is set to "1 (Yes)".		

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6009	ADF Free Run	
	Duplex Mode	
6009 1	Performs an ARDF free run in duplex scanning mode. Press "ON" to start; press "OFF" to stop.	
	Simplex Mode	
6009 3	Performs an ARDF free run at simplex scanning mode. Press "ON" to start; press "OFF" to stop.	

6910*	ADF Shading Time	[0 to 60 / 30 / 1 s/step]
6910 1	and heat in the room may	or the shading processing in the ARDF mode. Light affect the scanner response. Reduce this setting if the white level is drifting during ARDF copy jobs.

6930*	ADF Hole Setting	[0 or 1 / 0 / -] 0 : No, 1: Yes
6930	Enables or disables the AD When "1: Yes" is selected, originals in the ARDF.	OF hole setting. the machine prevents feed jams of the punched

SP7-XXX (Data Log)

7001*	Total Operation
7001 1	Displays the total operation time (total drum rotation time).

7401*	Counter-SC Total	[0 to 9999 / 0 / 1/step]
7401 1	Displays how many times SC codes are generated.	

7403*	SC History
7403 1	Displays the histories of the latest 10 SC codes.

7502*	Counter-Paper Jam	[0 to 9999 / 0 / 1/step]
7502 1	Displays the total number of copy paper jams.	

7503*	Counter-Orgn Jam	[0 to 9999 / 0 / 1/step]
7503 1	Displays the total number of original jams,	

7504*	Paper Jam/Loc	[0 to 9999 / 0 / 1/step]	
	Displays the total number of the paper jams classified by timing and location.		
7504 1	At power on		
70011	Paper jam occurs at power on.		
7504 10	Regist NoFeed: OFF		
7504 10	Paper does not reach the registration sensor (from a paper tray).		
7504 11	1 Vertical SN: OFF		
	Paper does not reach the relay sensor		

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7504 12	1 Vertical SN: ON
	Paper is caught at the relay sensor.
7504 50	Regist Bypass: OFF
700100	Paper does not reach the registration sensor (from the by-pass tray).
	Regist Duplex: OFF
7504 60	Paper does not reach the registration sensor during reverse-side printing (for duplex printing).
7504 70	Regist SN: ON
700170	Paper is caught at the registration sensor.
7504 120	1 Exit SN: ON
7001120	Paper is caught at the exit sensor (previous page).
7504 121	Exit SN: OFF
7001121	Paper does not reach the exit sensor.
7504 122	2 Exit SN: ON
7001122	Paper is caught at the exit sensor.
7504 123	Dup Inverter: OFF
	Paper does not reach the duplex inverter sensor (from the registration roller).
7504 125	Dup Inverter: ON
7334 120	Paper is caught at the duplex inverter sensor.

	Original Jam/Loc	[0 to 9999 / 0 / 1/step]	
7505*	Displays the total number of the original jams on the ARDF that have occurred at a certain timing or at a certain location.		
7505 1	At power on		
	Paper jam occurs at power on.		
7505 210	Regist SN: OFF		
7 000 210	The original does not reach the registration sensor.		
7505 211	Regist SN: ON		
7000 211	The original is caught at the registration sensor.		
7505 212	Paper Exit SN: OFF		
7 000 2 12	The original does not reach the exit sensor.		
7505 213	Paper Exit SN: ON		
7000 210	The original is caught at the exit sensor.		
7505 214	Inverter SN: OFF		
7 000 211	The original does not reach the inverter sensor.		
7505 215	Inverter SN: ON		
. 555 2.10	Not used in this machine.		

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7506	[Paper Jam/ Size] Jam Counter: Paper Size			
7506 6	A5 LEF			
7506 44	HLT LEF			
7506 133	A4 SEF	CTL		
7506 134	A5 SEF		' '	
7506 142	B5 SEF			
7506 164	LG SEF		[0 to 9999 / 0 / 1 sneet/step]	[0 to 9999 / 0 / 1 sheet/step]
7506 166	LT SEF			
7506 172	HLT SEF			
7506 255	Others			

7507*	Display-P Jam History
7507 1	Displays the latest 10 paper-jam history. The list below shows the possible 12 codes: 1, 10, 11, 12, 50, 60, 70, 120, 121, 122, 123, 125 The codes correspond to the menus of SP7-504. For example, the code 1 corresponds to SP7-504-001, and the code 10 corresponds to SP7-504-10.

7508*	Display-O Jam History
7508 1	Displays the total number of the original-jams history. The possible codes are 210, 211, and 216. The codes correspond to the menus of SP7-505. For example, the code 210 corresponds to SP7-505-210, and the code 211 corresponds to SP7-505-211.

7801 Memory/Version/PN			
7801 255	Memory/Version		
7.551.250	Displays the he part number and version of all ROMs in the machine		

	7803*	PM Counter
7803 1 Displays the PM counter.		Displays the PM counter.

7804 PM Counter Reset	
7804 1	Resets the PM counter (SP7-803-001). When the program ends normally, the message "Completed" is displayed.

7807	Reset–SC/Jam Counters			
7807 1	Resets the SC, paper, original, and total jam counters. When the program ends normally, the message "Completed" is displayed. SP7-807-1 does not reset the following logs: SP7-507 (Display-Paper Jam History) and SP7-508 (Display-Original Jam History).			

7826	MF Error Counter Japan Only		
	Displays the number of counts requested of the card/key counter.		
001	Error Total	A request for the count total failed at power on. This error will occur if the device is installed but disconnected.	
002	Error Staple	The request for a staple count failed at power on. This error will occur if the device is installed but disconnected.	

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7827	MF Error Counter Clear		
	Press Execute to reset to 0 the values of SP7826. Japan Only		

7832* Display-Self-Diag		Display-Self-Diag
	7832 1	Displays the SC codes and the number of their occurrences. Each number is in the range of 0 to 9999.

7836	[Resident Memory]
	Displays the contents of the memory on the controller board.

	Assert Info		
7901	Records the location where a problem is detected in the program. The data stored in this SP is used for problem analysis. DFU		
7901 1	File Name	-	-
7901 2	Number of Lines	-	-
7901 3	Location	-	-

	Dsply-Info Count	
7991*	Displays the total operating time or the total number of operations. The time is displayed in the following format: day: hour: minute: second.	
7991 3	Dsply-ID S Work	
, 501.0	The total of the time when the ID sensor is working.	
7991 4	Dsply-Dev Counter	
7.001	The total number of paper outputs.	
7991 5	Dsply-ID Er Count	
. 301 0	The total number of ID-sensor errors.	

7992*	Reset-Info Count
7992 4	Reset-Dev Count
7002 1	Clears the development counter (SP7-991-004).
7992 5	Reset-ID Er Count
. 302 0	Clears the ID sensor error counter (SP7-991-005).

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SP8-XXX (History)

Most of the SPs in this group are prefixed with a letter that indicates the mode of operation (the mode of operation is referred to as an "application"). Before reading the Group 8 Service Table, make sure that you understand what these prefixes mean.

Prefixes	What it means		
T:	Total: (Grand Total).	Grand total of the items counted for all applications (C, F, P, etc.)	
C:	Copy application.		
F:	Fax application.	Totals (pages, jobs, etc.) executed for each application when the job was not stored on the	
P:	Print application.	document server.	
S:	Scan application.		
O:	Other applications (external network applications, for example)	Refers to network applications such as Web Image Monitor. Utilities developed with the SDK (Software Development Kit) will also be counted with this group in the future.	

The Group 8 SP codes are limited to 17 characters, forced by the necessity of displaying them on the small LCDs of printers and faxes that also use these SPs. Read over the list of abbreviations below and refer to it again if you see the name of an SP that you do not understand.

Key for Abbreviations

Abbreviation	What it means			
1	"By", e.g. "T:Jobs/ApI" = Total Jobs "by" Application			
>	More (2> "2 or more", 4> "4 or more"			
AddBook	Address Book			
Apl	Application			

Abbreviation	What it means	
B/W	Black & White	
Bk	Black	
С	Cyan	
ColCr	Color Create	
ColMode	Color Mode	
Comb	Combine	
Comp	Compression	
Deliv	Delivery	
DesApl	Designated Application. The application (Copy, Fax, Scan, Print) used to store the job on the document server, for example.	
Dev Counter	Development Count, no. of pages developed.	
Dup, Duplex	Duplex, printing on both sides	
Emul	Emulation	
FC	Full Color	
FIN	Post-print processing, i.e. finishing (punching, stapling, etc.)	
Full Bleed	No Margins	
GenCopy	Generation Copy Mode	
GPC	Get Print Counter. For jobs 10 pages or less, this counter does not count up. For jobs larger than 10 pages, this counter counts up by the number that is in excess of 10 (e.g., for an 11-page job, the counter counts up 11-10 =1)	

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Abbreviation	What it means	
IFax	Internet Fax	
ImgEdt	Image Edit performed on the original with the copier GUI, e.g. border removal, adding stamps, page numbers, etc.	
К	Black (YMCK)	
LS	Local Storage. Refers to the document server.	
LSize	Large (paper) Size	
Mag	Magnification	
МС	One color (monochrome)	
NRS	NRS (@Remote), which allows a service center to monitor machines remotely. "@Remote" is used overseas; "CSS" is used in Japan.	
Org	Original for scanning	
OrgJam	Original Jam	
Palm 2	Print Job Manager/Desk Top Editor: A pair of utilities that allows print jobs to be distributed evenly among the printers on the network, and allows files to moved around, combined, and converted to different formats.	
PC	Personal Computer	
PGS	Pages. A page is the total scanned surface of the original. Duplex pages count as two pages, and A3 simplex count as two pages if the A3/DLT counter SP is switched ON.	
PJob	Print Jobs	
Ppr	Paper	

Abbreviation	What it means	
PrtJam	Printer (plotter) Jam	
PrtPGS	Print Pages	
R	Red (Toner Remaining). Applies to the wide format model A2 only. This machine is under development and currently not available.	
RCG	Remote Communication Gate	
Rez	Resolution	
SC	Service Code (Error SC code displayed)	
Scn	Scan	
Sim, Simplex	Simplex, printing on 1 side.	
S-to-Email	Scan-to-E-mail	
SMC	SMC report printed with SP5990. All of the Group 8 counters are recorded in the SMC report.	
Svr	Server	
TonEnd	Toner End	
TonSave	Toner Save	
TXJob	Send, Transmission	
YMC	Yellow, Magenta, Cyan	
YMCK	Yellow, Magenta, Cyan, Black	

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All of the Group 8 SPs are reset with SP5 801 1 Memory All Clear.

8 191	T:Total Scan PGS	CTL	These SPs count the pages scanned by each
8 192	C:Total Scan PGS	CTL	application that uses the scanner to scan
8 193	F:Total Scan PGS	CTL	images. [0 to 99999999 / 0 / 1]
8 195	S:Total Scan PGS	CTL	

- SP 8 191 to 8 196 count the number of scanned sides of pages, not the number of physical pages.
- These counters do not count reading user stamp data, or reading color charts to adjust color.
- Previews done with a scanner driver are not counted.
- A count is done only after all images of a job have been scanned.
- Scans made in SP mode are not counted.

Examples

- If 3 B5 pages and 1 A3 page are scanned with the scanner application but not stored, the S: count is 4.
- If both sides of 3 A4 sheets are copied and stored to the document server using the Store File button in the Copy mode window, the C: count is 6 and the L: count is 6.
- If both sides of 3 A4 sheets are copied but not stored, the C: count is 6.
- If you enter document server mode then scan 6 pages, the L: count is 6.

	T:LSize Scan PGS	CTL	[0 to 99999999 / 0 / 1]
8 201	for scan and copy jobs transmission is not cou	s. Large siz unted.	er of large pages input with the scanner te paper (A3/DLT) scanned for fax layed in the SMC Report, and in the User

		F:I Size	Scan PGS	CTL		[0 to 99999999 / 0 / 1]
8 203				umber of large pages scanned by original type for		
		S:LSize	Scan PGS	CTL	_	[0 to 99999999 / 0 / 1]
8 205		These SPs count the total number of large pages input with the scanner for scan jobs only. Large size paper (A3/DLT) scanned for fax transmissic are not counted. • Note • These counters are displayed in the SMC Report, and in the Us Tools display.				er (A3/DLT) scanned for fax transmission
		ADF O	rg Feeds	CTL	[0 t	to 99999999 / 0 / 1]
8 221			SPs count the number of pages fed through the ADF for front and de scanning.			
	001	Front	Number of front sides fed for scanning: With an ADF/ARDF that can scan both sides simultaneously, the Front side count is the same as the number of pages fed for either simplex or duplex scanning. With an ADF/ARDF that cannot scan both sides simultaneously, the Front side count is the same as the number of pages fed for duplex front side scanning. (The front side is determined by which side the user loads face up.)			
	002	Back	Number of rear sides fed for scanning: With an ADF/ARDF that can scan both sides simultaneously, the Back count is the same as the number of pages fed for duplex scanning. With an ADF/ARDF that cannot scan both sides simultaneously, the Back count is the same as the number of pages fed for duplex rear-side scanning.			

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- When 1 sheet is fed for duplex scanning the Front count is 1 and the Back count is 1.
- If a jam occurs during the job, recovery processing is not counted to avoid double counting. Also, the pages are not counted if the jam occurs before the first sheet is output.

8 281	T:Scan PGS/TWAIN	CTL	These SPs count the number of pages
8 285	S:Scan PGS/TWAIN	CTL	scanned using a TWAIN driver. These counters reveal how the TWAIN driver is used for delivery functions. [0 to 99999999 / 0 / 1] Note At the present time, these counters perform identical counts.

8 291	T:Scan PGS/Stamp	CTL	These SPs count the number of pages
8 293	F:Scan PGS/Stamp	CTL	stamped with the stamp in the ADF unit. [0 to 99999999 / 0 / 1]
8 295	S:Scan PGS/Stamp	CTL	

	T:Scan PGS/Size	CTL	[0 to 99999999 / 0 / 1]
8 301	These SPs count by size the total number of pages scanned by all applications. Use these totals to compare original page size (scanning) and output (printing) page size [SP 8-441].		
	C:Scan PGS/Size	CTL	[0 to 99999999 / 0 / 1]
8 302	These SPs count by size the total number of pages scanned by the Copy application. Use these totals to compare original page size (scanning) and output (printing) page size [SP 8-442].		
	F:Scan PGS/Size		[0 to 99999999 / 0 / 1]
8 303	F:Scan PGS/Size CTL [0 to 99999999 / 0 / 1] These SPs count by size the total number of pages scanned by the Fax application. Use these totals to compare original page size (scanning) and output page size [SP 8-443].		

	S:Scan PGS/Size	CTL	[0 to 99999999 / 0 / 1]
8 305	These SPs count by size the total number of pages scanned by the Sca application. Use these totals to compare original page size (scanning) a output page size [SP 8-445].		
-001	A3		
002	A4		
003	A5		
004	B4		
005	B5		
006	DLT	_	
007	LG		
008	LT		
009	HLT		
010	Full Bleed		
-254	Other (Standard)		
-255	Other (Custom)		

8 381	T:Total PrtPGS	CTL	
8 382	C:Total PrtPGS	CTL	These SPs count the number of pages printed by the customer. The counter for the
8 383	F:Total PrtPGS	CTL	application used for storing the pages
8 384	P:Total PrtPGS	CTL	increments. [0 to 99999999 / 0 / 1]
8 385	S:Total PrtPGS	CTL	
8 387	O:Total PrtPGS	CTL	

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- When the A3/DLT double count function is switched on with SP5104, 1 A3/DLT page is counted as 2.
- When several documents are merged for a print job, the number of pages stored is counted for the application that stored them.
- These counters are used primarily to calculate charges on use of the machine, so the following pages are not counted as printed pages:
 - Blank pages in a duplex printing job.
 - Blank pages inserted as document covers, chapter title sheets, and slip sheets.
 - Reports printed to confirm counts.
 - All reports done in the service mode (service summaries, engine maintenance reports, etc.)
 - Test prints for machine image adjustment.
 - Error notification reports.
 - Partially printed pages as the result of a copier jam.

	LSize PrtPGS	CTL	[0 to 99999999 / 0 / 1]		
8 391	These SPs count pages printed on paper sizes A3/DLT and larger. Note				
		•	layed in the SMC Report, these counters e User Tools display on the copy machine.		

8 411	Prints/Duplex	CTL	This SP counts the amount of paper (front/back counted as 1 page) used for duplex printing. Last pages printed only on one side are not counted. [0 to 99999999 / 0 / 1]
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	T:PrtPGS/Dup Comb	CTL	[0 to 99999999 / 0 / 1]
8 421			combine, and n-Up settings the number This is the total for all applications.

ī	_					
	C:PrtPGS/Dup Cor	nb	CTL	[0 to 99999999 / 0 / 1]		
8 422		These SPs count by binding and combining, and n-Up settings the number				
	of pages processed for printing by the copier application.					
	F:PrtPGS/Dup Con	nb	CTL	[0 to 99999999 / 0 / 1]		
8 423		-	•	combining, and n-Up settings the number by the fax application.		
	P:PrtPGS/Dup Con	nb	CTL	[0 to 99999999 / 0 / 1]		
8 424		-	•	combining, and n-Up settings the number by the printer application.		
	S:PrtPGS/Dup Con	nb	CTL	[0 to 99999999 / 0 / 1]		
8 425		•	Ū	combining, and n-Up settings the number by the scanner application.		
	O:PrtPGS/Dup Cor	mb	CTL	[0 to 99999999 / 0 / 1]		
8 427		-	•	combining, and n-Up settings the number by Other applications		
00	Simplex> Duplex	-				
00	Puplex> Duplex	-				
00	Book> Duplex	-				
00	Simplex Combine	-				
00	Duplex Combine	-				
00	2>	2 pages on 1 side (2-Up)				
00	4>	4 pages on 1 side (4-Up)				
00	6>	6 pages on 1 side (6-Up)				
00	8>	8 pa	ges on	1 side (8-Up)		

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010	9>	9 pages on 1 side (9-Up)
011	16>	16 pages on 1 side (16-Up)
012	Booklet	-
013	Magazine	-

- These counts (SP8-421 to SP8-427) are especially useful for customers who need to improve their compliance with ISO standards for the reduction of paper consumption.
- Pages that are only partially printed with the n-Up functions are counted as 1 page.
- Here is a summary of how the counters work for Booklet and Magazine modes:

Воо	klet	Magazine		
Original Pages	Count	Original Pages	Count	
1	1	1	1	
2	2	2	2	
3	2	3	2	
4	2	4	2	
5	3	5	4	
6	4	6	4	
7	4	7	4	
8	4	8	4	

		T:PrtPGS/Ppr Size		CTL	[0 to 99999999 / 0 / 1]	
8 441		These SPs count by print paper size the number of pages printed by all applications.				
		C:PrtPGS/Ppr Size		CTL	[0 to 99999999 / 0 / 1]	
8 442		These SPs count by copy application.	/ pri	nt paper	size the number of pages printed by the	
		F:PrtPGS/Ppr Size		CTL	[0 to 99999999 / 0 / 1]	
8 443		These SPs count by fax application.	/ pri	nt paper	size the number of pages printed by the	
		P:PrtPGS/Ppr Size		CTL	[0 to 99999999 / 0 / 1]	
8 444		These SPs count by print paper size the r			size the number of pages printed by the	
		S:PrtPGS/Ppr Size		CTL	[0 to 99999999 / 0 / 1]	
8 445		These SPs count by scanner application	print paper size the number of pages printed by the			
		O:PrtPGS/Ppr Size		CTL	[0 to 99999999 / 0 / 1]	
8 447		These SPs count by applications.	/ prii	nt paper s	size the number of pages printed by Other	
	001	A3				
	002	A4				
	003	A5				
	004	B4	-			
	005	B5				
	006	DLT				
	007	LG				

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008	LT	
009	HLT	
010	Full Bleed	
254	Other (Standard)	_
255	Other (Custom)	

• These counters do not distinguish between LEF and SEF.

8 451	PrtPGS/Ppr Tra	ay CTL [0 to 99999999 / 0 / 1] unt the number of sheets fed from each paper feed station.		
	These SPs cou			
001	Bypass	Вура	ıss Tray	
002	Tray 1	Copi	er	
003	Tray 2	Copi	er	
004	Tray 3	Currently not used.		
005	Tray 4	Currently not used.		
006	Tray 5	Currently not used.		
007	Tray 6	Curr	ently not use	ed.
008	Tray 7	Currently not used.		
009	Tray 8	Currently not used.		
010	Tray 9	Curr	ently not use	ed.

		T:PrtPGS/Ppr Type	CTL	[0 to 99999999 / 0 / 1]			
8 461		 applications. These counters are not is based on feed timing feed rollers. However, Blank sheets (covers, 	ot the san g to accu these co chapter o , pages p	number pages printed by all ne as the PM counter. The PM counter rately measure the service life of the unts are based on output timing. covers, slip sheets) are also counted. wrinted on both sides count as 1, and a s as 1.			
		C:PrtPGS/Ppr Type	CTL	[0 to 99999999 / 0 / 1]			
8 462		These SPs count by paper application.	type the	number pages printed by the copy			
		F:PrtPGS/Ppr Type	CTL	[0 to 99999999 / 0 / 1]			
8 463		These SPs count by paper application.	These SPs count by paper type the number pages printed by the fax application.				
		P:PrtPGS/Ppr Type	CTL	[0 to 99999999 / 0 / 1]			
8 464		These SPs count by paper application.	type the	number pages printed by the printer			
	001	Normal					
	002	Recycled					
	003	Special					
	004	Thick					
	005	Normal (Back)					
	006	Thick (Back)					
	007	OHP					
	800	Other					

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		T:PrtPGS/FIN	CTL	[0 to 99999999 / 0 / 1]		
8 521		These SPs count by finishing mode the total number of pages printed by all applications.				
		C:PrtPGS/FIN	CTL	[0 to 99999999 / 0 / 1]		
8 522		These SPs count by finish the Copy application.	hing mod	de the total number of pages printed by		
		F:PrtPGS/FIN	CTL	[0 to 99999999 / 0 / 1]		
8 523		These SPs count by finishing mode the total number of pages printed by the Fax application. • Note • Print finishing options for received faxes are currently not available.				
		P:PrtPGS/FIN	CTL	[0 to 99999999 / 0 / 1]		
8 524		These SPs count by finishing mode the total number of pages printed by the Print application.				
		S:PrtPGS/FIN	CTL	[0 to 99999999 / 0 / 1]		
8 525		These SPs count by finist the Scanner application.	hing mod	de the total number of pages printed by		
	001	Sort				
	002	Stack				
	003	Staple				
	004	Booklet				
	005	Z-Fold				
	006	Punch				
	007	Other				



- If stapling is selected for finishing and the stack is too large for stapling, the unstapled pages are still counted.
- The counts for staple finishing are based on output to the staple tray, so jam recoveries are counted.

		T:Counter	CTL	[0 to 99999999 / 0 / 1]
8 581		the application used. I	n addition	to being displayed in the SMC Report, d in the User Tools display on the copy
	001	Total		

8 591	O:Counter		CTL	[0 to 99999999 / 0 / 1]	
8 591 1	A3/DLT	These SPs count the totals for A3/DLT paper use, number of duplex pages printed, and the number of staples used. These totals are for Other (O:) applications only.			
8 591 2	Duplex				

8 601	Cvg Counter	CTL	[0 to 99999999 / 0 / 1]
8 601 1	Cvg: BW %	Displays the total coverage of each mode.	
8 601 11	Cvg: BW Pages	Displays the number of the printouts in each mode	

	T:FAX TX PGS	CTL	[0 to 99999999 / 0 / 1]
8 631	This SP counts by color telephone number.	mode the r	number of pages sent by fax to a

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	F:FAX TX PGS	CTL	[0 to 99999999 / 0 / 1]		
8 633	This SP counts by color mode the number of pages sent by fax to a telephone number.				
001	B/W				

- If a document has color and black-and-white pages mixed, the pages are counted separately as B/W or Color.
- At the present time, this feature is provided for the Fax application only so SP8631 and SP8633 are the same.
- The counts include error pages.
- If a document is sent to more than one destination with a Group transmission, the count is done for each destination.
- Polling transmissions are counted but polling RX are not.
- Relay, memory, and confidential mailbox transmissions and are counted for each destination.

	T:IFAX TX PGS	CTL	[0 to 99999999 / 0 / 1]		
8 641	This SP counts by color mode the number of pages sent by fax to as fax images using I-Fax.				
	F:IFAX TX PGS	CTL	[0 to 99999999 / 0 / 1]		
8 643	This SP counts by color mode the number of pages sent by Fax as fax images using I-Fax.				
001	B/W				

- If a document has color and black-and-white pages mixed, the pages are counted separately as B/W or Color.
- At the present time, this feature is provided for the Fax application only so SP8641 and SP8643 are the same.
- The counts include error pages.
- If a document is sent to more than one destination with a Group transmission, the count is done for each destination.

- Polling transmissions are counted but polling RX are not.
- Relay, memory, and confidential mailbox transmissions and are counted for each destination.

		T:S-to-Email PGS	CTL	[0 to 99999999 / 0 / 1]	
8 651		This SP counts by color mode the total number of pages attached to an e-mail for both the Scan and document server applications.			
		S:S-to-Email PGS	CTL	[0 to 99999999 / 0 / 1]	
8 655		This SP counts by color mode the total number of pages attached to an e-mail for the Scan application only.			
00	01	B/W			
002 Color					



- The count for B/W and Color pages is done after the document is stored. If the job is cancelled before it is stored, the pages are not counted.
- If Scan-to-Email is used to send a 10-page document to 5 addresses, the count is
 10 (the pages are sent to the same SMTP server together).
- If Scan-to-PC is used to send a 10-page document to 5 folders, the count is 50 (the document is sent to each destination of the SMB/FTP server).
- Due to restrictions on some devices, if Scan-to-Email is used to send a 10-page document to a large number of destinations, the count may be divided and counted separately. For example, if a 10-page document is sent to 200 addresses, the count is 10 for the first 100 destinations and the count is also 10 for the second 100 destinations, for a total of 20.).

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	661	T:Deliv PGS/Svr	CTL	[0 to 99999999 / 0 / 1]	
8 661		These SPs count by color mode the total number of pages sent to a Scan Router server by both Scan and LS applications.			
		S:Deliv PGS/Svr	CTL	[0 to 99999999 / 0 / 1]	
8 665		These SPs count by color mode the total number of pages sent to a Scan Router server by the Scan application.			
	001	001 B/W			
	002	002 Color			

↓ Note

- The B/W and Color counts are done after the document is stored on the HDD of the Scan Router server.
- If the job is canceled before storage on the Scan Router server finishes, the count is not done
- The count is executed even if there is confirmation of the arrival at the Scan Router server.

		T:Deliv PGS/PC	CTL	[0 to 99999999/ 0 / 1]	
8 671	71	These SPs count by color mode the total number of pages sent to a folder on a PC (Scan-to-PC) with the Scan and LS applications.			
		S:Deliv PGS/PC	CTL	[0 to 99999999 / 0 / 1]	
8 675		These SPs count by color mode the total number of pages sent with Scan-to-PC with the Scan application.			
	001 B/W				
	002 Color				



- Print jobs done with Web Image Monitor and Desk Top Binder are added to the count.
- If several documents are merged for sending, the number of pages stored are counted for the application that stored them.
- When several documents are sent by a Fax broadcast, the F: count is done for the number of pages sent to each destination.

8 681	T:PCFAX TXPGS	CTL	These SPs count the number of pages sent by	
8 683	F:PCFAX TXPGS	CTL	PC Fax. These SPs are provided for the Fax application only, so the counts for SP8-681 and SP8-683 are the same. [0 to 99999999 / 0 / 1]	

- This counts pages sent from a PC using a PC fax application, from the PC through the copier to the destination.
- When sending the same message to more than one place using broadcasting, the pages are only counted once. (For example, a 10-page fax is sent to location A and location B. The counter goes up by 10, not 20.)

	TX PGS/Port	CTL	[0 to 99999999 / 0 / 1]
These SPs count the number of pages sent by the physical port us send them. For example, if a 3-page original is sent to 4 destination ISDN G4, the count for ISDN (G3, G4) is 12.			
8 701 1	PSTN-1	-	
8 701 2	PSTN-2	-	
8 701 3	PSTN-3	-	
8 701 4	ISDN (G3,G4)	-	
8 701 5	Network	-	

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8 711	T:Scan PGS/Comp	CTL [0 to 99999999 / 0 / 1]				
8 715	S:Scan PGS/Comp	CTL	[0 to 99999999 / 0 / 1]			
0710	These SPs count the	number	of pages sent by each compression mode.			
-001	JPEG/JPEG2000	-				
-002	TIFF M/S (Multi/Single)	-				
-003	PDF	-				
-004	Other	-				
	•					
8 771	Dev Counter	CTL	[0 to 99999999/ 0 / 1]			
	This SP counts the	This SP counts the total number of developed images.				
8 771 1	Total					
			T			
8 781	Toner Botol Info.	*BICU	[0 to 99999999/ 0 / 1]			
	This SP counts the	This SP counts the total number of developed images.				
8 781 1	Total					
	Toner Remain	CTL	[0 to 100 / 0 / 1]			
This SP displays the percent of toner remaining for each color. This SP allows the user to check the toner supply at any time. This precise method of measuring remaining toner supply (1% steps) is better than other machines on the market that can on measure in increments of 10 (10% steps).			toner supply at any time. d of measuring remaining toner supply (1% n other machines on the market that can only			
8 801 1	к					

	Cvr Cnt:0-10%	*BICU	[0 to 99999999/ 0 / 1]		
8 851	These SPs display the number of scanned sheets on which the coverag of each color is from 0% to 10%.				
8 851 11	0-2%:Bk				
8 851 21	3-4%: Bk				
8 851 31	5-7%: Bk				
8 851 41	8-10%: Bk				

	Cvr Cnt: 11-20%	*BICU	[0 to 99999999/ 0 / 1]	
8 861	These SPs display the number of scanned sheets on which the cover of each color is from 11% to 20%.			
8 861 1	Bk			

	Cvr Cnt: 21-30%	*BICU	[0 to 99999999/ 0 / 1]	
8 871	These SPs display the number of scanned sheets on which the cove of each color is from 21% to 30%.			
8 871 1	Bk			

	Cvr Cnt: 31%-	*BICU	[0 to 99999999/ 0 / 1]	
8 881		These SPs display the number of scanned sheets on which the coverage of each color is 31% or higher.		
8 881 1	Bk			

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8 891	Page/Toner Bottle	*BICU	[0 to 99999999/ 0 / 1]	
		of sheets output by the scan application.		
8 891 1	Bk			

	Page/Toner k Prev1 *BICU [0 to 99999999/ 0 / 1]				
8 901	This SP displays the nuthe previously replaced		sheets output by the scan application with		
8 901 1	Bk				

	Page/Toner k Prev2	*BICU	[0 to 99999999/ 0 / 1]
8 911	l -		sheets output by the scan application with riously replaced unit (two steps back from
8 911 1	Bk		

8 921	Cvr Cnt/Total	*BICU	
8 921 1	Coverage(%): BK	[0 to 2147483647 / 0 / 1] These SPs display the total coverage percentage of sheets output by the machine.	
8 921 11	Covwerage/P: Bk	[0 to 99999999 / 0 / 1] These SPs display the total coverage pages output by the machine.	

	Cvr Cnt/Total	CTL	[0 to 99999999 / 0 / 1]		
8 941	mode. These SPs are	e amount of time the machine spends in each operation e useful for customers who need to investigate or improvement of their compliance with ISO Standards.			
8 941 1	Operation Time	controlle	Engine operation time. Does not include time while controller is saving data to HDD (while engine is not operating).		
8 941 2	Standby Time	saves da	Engine not operating. Includes time while controller saves data to HDD. Does not include time spent in Energy Save, Low Power, or Off modes.		
8 941 3	Energy Save Time	Includes time while the machine is performing background printing.			
8 941 4	Low Power Time	Includes time in Energy Save mode with Engine on. Includes time while machine is performing background printing.			
8 941 5	Off Mode Time	Includes time while machine is performing background printing. Does not include time machine remains powered off with the power switches.			
8 941 6	sc	Total down time due to SC errors.			
8 941 7	PrtJam	Total down time due to paper jams during printing.			
8 941 8	OrgJam	Total down time due to original jams during scanning.			
8 941 9	Spl PM Unit End	Total down time due to toner end.			

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Service Program

8 999	AdominCounter		CTL	[0 to 9999999 / 0 / 1]	
		set	setting counter for administrator.		
8 999 1	Total	ı			
8 999 3	Copy: BW	ı			
8 999 7	Printer: BW	•			
8 999 10	FaxP: BW	-			
8 999 13	Duplex	ı			
8 999 15	Cvr: BW %	1			
8 999 17	Cvr: BW Pages	1			
8 999 101	SedTtl: FC				
8 999 102	SendTtl: BW	1			
8 999 103	FaxSend	ı			
8 999 104	FaxSend: BW				
8 999 105	FaxSend: BW	-			

5.1.3 ID SENSOR ERROR ANALYSIS (SP2-221)

The image quality may become very poor when the ID sensor does not operate properly. However, there is no SC code that indicates ID-sensor malfunction. Instead, SP2-221 shows you some information on the ID sensor. Check this information when the image quality is poor.

The table lists the information shown with SP2-221 (ID Sensor Error Analysis).

SP	Error condition	Possible cause	Remarks
SP2-221-1 Vsg (VG in the display)	Vsg < 2.5V or (Vsg – Vsp) < 1.00V	ID sensor defectiveID sensor dirtyDrum not charged	-
SP2-221-2 Vsp (VP in the display)	Vsp > 2.5V or (Vsg – Vsp) < 1.00V	Toner density very lowID sensor pattern not created	-
SP2-221-3 Power (PW in the display)	Vsg < 3.5V when maximum power (979) is applied	ID sensor defectiveID sensor dirtyDrum not get charged	Power source for the ID-sensor light
SP2-221-4 Vsdp	No Error Conditions		-
SP2-221-5 Vt	Vt > 4.5V or Vt < 0.2V	TD sensor defective	-
SP2-221-6 Vts	-	-	-

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5.1.4 MEMORY CLEAR

GW Machine (B284/B288)

The GW machine (the machine with the optional controller box) stores the engine data in the NVRAM on the BICU, and stores the other data in the NVRAM on the optional controller. To distinguish between the engine data and the other data, see SP5-801-003 through 015. This service program (SP5-801) handles the controller data. Any data that is not handled by SP5-801 is the engine data. The data in the BICU NVRAM (engine data) is cleared by SP5-998-001 while the data in the controller NVRAM (controller data) is cleared by SP5-801-xxx (for exceptions, see "Exceptions" as described below).

Machine	Data	NVRAM	Cleared by	Remarks
	Engine data	BICU	SP5-998-001	Any data other than controller data
GW	Controller data	Controller	SP5-801-xxx	SCS, IMH, MCS, Copier application, Fax application, Printer application, Scanner application, Web service/network application, NCS, R-Fax, DCS, UCS

Exceptions

SP5-998-001 clears most of the settings and counters stored in the NVRAM on the BICU (the values return to their default values). However, the following settings are not cleared:

- SP5-807 (Area Selection)
- SP5-811-001 (Serial Num Input [Code Set])
- SP5-811-003 (Serial Num Input [ID2 Code Display])
- SP5-812-001 (Service TEL [Telephone])
- SP5-812-002 (Service TEL [Facsimile])
- SP5-907 (Plug & Play)
- SP7 (Data Log)
- SP8 (History)

Use SP5-998-001 after you have replaced the BICU NVRAM or when the BICU NVRAM data is corrupted. When the program ends normally, the message "Completed" is displayed.

When you have replaced the controller NVRAM or when the controller NVRAM data is corrupted, use SP5-801-001. The message is the same as the basic machine.

Memory Clear Procedure

- 1. Print out all SMC data lists ("SMC Print").
- 2. Do SP5-998-001.
- 3. Press the OK key.
- 4. Select "Execute." The messages "Execute?" followed by "Cancel" and "Execute" are displayed.
- 5. Select "Execute."
- 6. When the program has ended normally, the message "Completed" is displayed. If the program has ended abnormally, an error message is displayed.
- 7. Turn the main switch off and on.
- 8. Adjust the printer and scanner registration and magnification (* "Copy Adjustment" in the chapter "Replacement and Adjustment").
- 9. Refer to the SMC lists, and enter any values that differ from the factory settings. Double-check the values for SP4-901.
- 10. Adjust the standard white level (SP4-428).
- 11. Initialize the TD sensor (SP 2-214).
- 12. Check the copy quality and the paper path.

5.1.5 MEMORY CLEAR

Basic Model (B262/B292)

This model (the machine without the controller box) stores all the data in the NVRAM on the BICU. The data is cleared by SP5-801-002 (for exceptions, see "").

Exceptions

SP5-801-002 clears most of the settings and counters stored in the NVRAM on the BICU (the values return to their default values). However, the following settings are not cleared:

- SP5-807 (Area Selection)
- SP5-811-001 (Serial Num Input > Code Set)
- SP5-812-001 (Service TEL > Telephone)
- SP5-812-002 (Service TEL > Facsimile)
- SP5-907-001 (Plug & Play)
- SP7 (Data Log)
- SP8 (History)

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Service Program

Initializing Memory Data

Use SP5-801-002 after you have replaced the BICU NVRAM or when the BICU NVRAM data is corrupted. When the program ends normally, the message "Completed" is displayed. When you have replaced the controller NVRAM or when the controller NVRAM data is corrupted, use SP5-801-001.

Executing Memory Clear

- Upload the NVRAM data to a flash memory card ("NVRAM Data Upload/Download").
- 2. Print out all SMC data lists ("SMC Print").



- Be sure to print out all the lists. You have to manually change the SP settings
 if the NVRAM data upload ends abnormally.
- 3. Select SP5-801-002.
- 4. Press the OK key.
- 5. Select "Execute." The messages "Execute?" followed by "Escape" and "Execute" are displayed.
- 6. Select "Execute."
- 7. When the program has ended normally, the message "Completed" is displayed. If the program has ended abnormally, an error message is displayed.
- 8. Press the escape key.
- 9. Turn the main switch off and on.
- Download the NVRAM data from a flash memory card ("NVRAM Data Upload/Download").

5.1.6 INPUT CHECK (SP5-803)

Conducting Input Check

- 1. Select SP5-803.
- 2. Select the number (see the table below) corresponding to the component.
- 3. Select "Execute." The copy mode is activated.
- 4. The sign "01H" or "00H" is displayed (see the table below).

Input Check Table

Num.	Sensor/Switch	1h	0h
001	Safety SW	Open	Closed
003	Right Cover SW	Open	Closed
005	Tray Cover SW	Open	Closed
006	Upper Relay S	Paper detected	Not detected
009	Registration Sensor	Paper detected	Not detected
010	Exit Sensor	Paper detected	Not detected
011	Duplex Inverter S	Paper detected	Not detected
014	By-pass PE S	Paper detected	Not detected
016	Upper PE S	Paper detected	Not detected
017	Lower PE S	Paper detected	Not detected
027	PCU Set Signal	Installed	Not installed
028	Optional Tray	*	*
030	Duplex Installed	Installed	Not installed
032	Main M Lock	Locked	Not locked
033	Polygon M Lock	Locked	Not locked

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Service Program

Num.	Sensor/Switch	1h	0h
035	Total CO Install	Installed	Not installed
036	Key CO Install	Installed	Not installed
037	L-Synchronization	Detected	Not detected
039	DF-Cover Open S	Open	Closed
040	DF-Original Set S	Paper detected	Not detected
041	DF-Registration S	Paper detected	Not detected
042	DF-Exit S	Paper detected	Not detected
044	DF-Reverse S	Paper detected	Not detected
045	Platen Cover S	Open	Closed
050	Fan Motor Lock (High speed)	High speed	Low speed or stop
052	Front Cover SW	Open	Closed
053	HP Sensor	Detected	Not detected

^{*} Available Paper Feed Unit

00	None	
30	1-tray paper feed unit	

5.1.7 OUTPUT CHECK (SP5-804)

Conducting Output Check

▲CAUTION

- To prevent mechanical or electrical damage, do not keep an electrical component on for a long time.
- 1. Select SP5-804.
- 2. Select the number (see the table below) corresponding to the component.
- 3. Select "ON."
- 4. To stop the operation, select "OFF."

Output Check Table

Num.	Component
001	Main Motor Forward
002	Main Motor Reverse
003	Quenching Lamp
004	Toner Supply Clutch Forward
005	Fan Motor High
006	Fan Motor Low
007	Registration Clutch
008	By-pass Feed Clutch
009	Upper Feed Clutch
010	Lower Feed Clutch
017	BK-Lift Motor
020	Duplex Inv Motor Reverse
021	Duplex Inv Motor Forward

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Service Program

Num.	Component
024	Duplex Inv Motor Hold
026	Polygon Motor
027	Polygon M/LD
028	LD
029	DF-Feed M
030	DF-Transport M
031	DF-Feed Clutch
034	DF-Gate SOL (Junction Gate Solenoid)
038	Fusing Solenoid
039	Fast Dup Inv M-Rev
042	Scan Fgate-Mono
043	Scan Fgate-Color

When checking Fan Motor High (005) or Fan Motor Low (006) note the following:

- These motors may not respond when the fusing temperature is high.
- Selecting "ON" checks that one of these motors normally operates. Selecting "OFF" turns off the motor that you have started by selecting "ON." However, this does not guarantee that the motor normally stops during normal operation.

5.1.8 MACHINE SERIAL NUMBER SETTING (SP5-811-001)

Specifying Characters

SP5-811-001 specifies the serial number. For the machine with the optional controller, you use the numeric keypad and the optional operation panel.

GW Machine (B284/B288)

You can use the numeric keypad to type numbers. In addition, you can use the operation panel to type other characters. When you press the "ABC" key, the letter changes as follows: $A \to B \to C$. To input the same letter two times, for example "AA," you press the "ABC" key, the "Space" key, and the "ABC" key. To switch between uppercase letters and lowercase letters, press the "Shift" key.

Serial Number and NVRAM

Serial numbers are stored in the NVRAM before shipment and are not cleared. You must specify a serial number after you replace the NVRAM.

5.1.9 NVRAM DATA UPLOAD/DOWNLOAD (B284/B288)

CAUTION

• Make sure that you turn off the main power switch before inserting or removing a flash memory card. Data in the memory may be corrupted if you insert or remove the memory card with the main power switch on.

Uploading Content of NVRAM to an SD card

Follow this procedure to upload SP code settings from NVRAM to an SD card.



- This data should always be uploaded to an SD card before the NVRAM is replaced.
- Before switching the machine off, execute SP 5990-1 (SMC Print). You will need a record of the NVRAM settings if the upload fails.
- 2. Turn off the main power of the copier.
- 3. Remove the slot cover 3 (uppermost one) (F x 1).
- 4. Insert the SD card into the service slot 3 (uppermost one), then turn on the main power of the copier.
- 5. Execute SP 5824-1 (NVRAM Data Upload) then press the "Execute" key.
 - When uploading is finished, a file is coped to an NVRAM folder on the SD card.

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The file is saved to the path and filename:

NVRAM¥<serial number>.NV

Here is an example with Serial Number "B0700017":

NVRAM¥B0700017.NV

6. In order to prevent an error during the download, be sure to mark the SD card that holds the uploaded (saved) data with the number of the machine from which the data was uploaded (saved).



- NVRAM data from more than one machine can be uploaded (saved) to the same SD card.
- 7. Turn off the main power, and then remove the SD card from the slot 3 (the uppermost one).
- 8. Reassemble the machine.

Downloading an SD Card to NVRAM

Follow this procedure to download (save) SP data from an SD card to the NVRAM in the machine.

- If the SD card with the NVRAM data is damaged, or if the connection between the controller and BICU is defective, the NVRAM data download may fail.
- If the download fails, repeat the download procedure.
- If the second attempt fails, enter the NVRAM data manually using the SMC print you created before uploading the NVRAM data. (* above procedure)
- 1. Turn off the main power of the copier.
- 2. Remove the slot cover 3 (the uppermost one) (\hat{x} x 1).
- 3. Insert the SD card with the NVRAM data into the service slot 3 (the uppermost one).
- 4. Turn on the main power of the copier.
- 5. Execute SP 5825-1 (NVRAM Data Download) and press the "Execute" key.
- 6. Turn off the main power of the copier, and then remove the SD card from the slot 3 (the uppermost one).
- 7. Reassemble the machine.



• In order for the NVRAM data to download successfully, the serial number of the file on the SD card must match the serial number of the machine. If the serial numbers do not match, the download will fail.

This procedure downloads (saves) the following data to the NVRAM:

- Total Count
- C/O, P/O Count

5.1.10 NVRAM DATA UPLOAD/DOWNLOAD (B262/B292)

CAUTION

• Make sure that you turn off the main power switch before inserting or removing a flash memory card. Data in the memory may be corrupted if you insert or remove the memory card with the main power switch on.

This section illustrates how to copy the data from the BICU NVRAM to a memory card (
"NVRAM Data Upload/Download" writing onto open space on card) or from a memory card
to the BICU NVRAM ("NVRAM Data Upload/Download"). For the workflow to copy the
data in the controller NVRAM, see xxx.

Overview

You can copy the data from the NVRAM to a flash memory card (NVRAM Upload) or from a flash memory card to the NVRAM (NVRAM download).

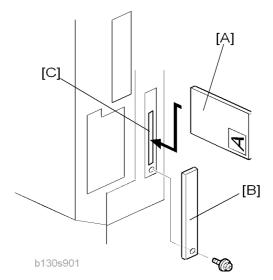
SP5-824-1 (NVRAM Upload)	From the BICU to a flash memory card
SP5-825-1 (NVRAM Download)	From a flash memory card to the BICU

You should execute NVRAM Upload before replacing the NVRAM or before executing SP5-801-002 (Memory Clear > Engine). You can copy back the data from the flash memory card to the NVRAM as necessary.

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NVRAM Upload (SP5-824-001)

- 8. Turn off the main switch.
- Remove the memory card cover [B] (x 1).
- 10. Turn the face of the flash memory card [A] ("A" is printed on it) to the rear of the copier, and insert it into the card slot [C].
- 11. Turn on the main power switch.
- 12. Activate the SP mode and select SP5-824-001.
- 13. The copier overwrites the data in the memory card with the data in the NVRAM. This takes about 20 seconds. If uploading fails, an error message appears. If an error message appears, retry the upload procedure.
- 14. Turn off the main power switch.
- 15. Remove the memory card.



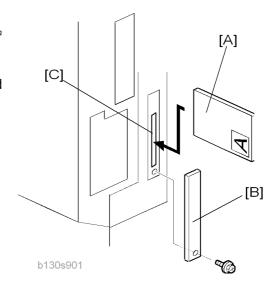
SM

NVRAM Download (SP5-825-001)

SP5-825-001 copies the data from a flash memory card to the NVRAM. Most of the data in the NVRAM is overwritten. The following data in the NVRAM remains unchanged (these are not overwritten):

- SP8-221-001 (ADF Original Feed > Front)
- SP8-381-001 (Total: Total Printer Pages)
- SP8-382-001 (Copy Application: Total Print Pages)
- SP8-411-001 (Prints/Duplex)

- 16. Turn off the main power switch.
- 17. Remove the memory card cover [B] (F x 1).
- 18. Turn the face of the flash memory card [A] ("A" is printed on it) to the rear of the copier, and insert it into the card slot [C].
- 19. Turn on the main switch.
- 20. Activate the SP mode and select SP5-825-001.
- 21. The copier overwrites the data in the NVRAM with the data in the memory card. This takes about one second. If downloading fails, an error message appears. If an error message appears, retry the download procedure.
- 22. Turn off the main power switch.
- 23. Remove the memory card.



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5.1.11 FIRMWARE UPDATE PROCEDURE

Procedure for the B284, B288, B892, and D323

This section illustrates how to update the firmware of the GW machine (the machine with the (optional) controller box). See **Procedure for the B262 and B292** for those units. To update the firmware for the GW machine, you must have the new version of the firmware downloaded onto an SD (Secure Digital) Card. The SD Card is inserted into the uppermost slot on the right side of the controller box, viewed from the back of the machine.

Before You Begin...

An SD card is a precision device, so always observe the following precautions when handling SD cards:

- Always switch the machine off before inserting an SD card. Never insert the SD card into the slot with the power on.
- When the power is switched on, never remove the SD card from the service slot.
- Never switch the machine off while the firmware is downloading from the SD card.
- Store SD cards in a safe location where they are not exposed high temperature, high humidity, or exposure to direct sunlight.
- Always handle SD cards with care to avoid bending or scratching them. Never drop an SD card or expose it to other shock or vibration.

Keep the following points in mind while you are using the firmware update software:

- "Upload" means to send data from the machine to the SD card, and "download" means to send data from the SD card to the machine.
- To select an item on the LCD screen, press the appropriate key on the operation panel, or press the appropriate number key on the 10-key pad of the operation panel.
- Before starting the firmware update procedure, always make sure that the machine is disconnected from the network to prevent a print job for arriving while the firmware update is in progress.

Firmware Update Procedure



 Before beginning the following, first confirm which firmware version(s) are currently installed in the machine with SP7-801-255.

SD Card Preparation

- 1. Format an SD card with, for example, SD Formatter v1.1.
- 2. Create a "romdata" folder on the card.
- 3. Create the following folders within the "romdata" folder: B284, B288, B892, D323.

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4. Download the firmware from the server and store the files in the folder with the corresponding model code on the SD card.

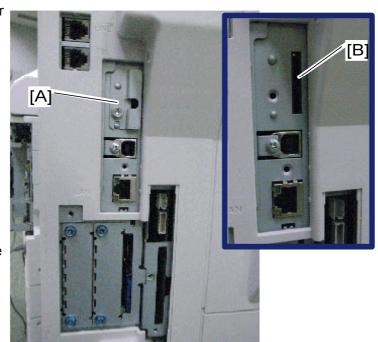
Example:

File B2845521C should be stored in the "B284" folder, whereas files B2625540C should be stored in the "B262" folder.

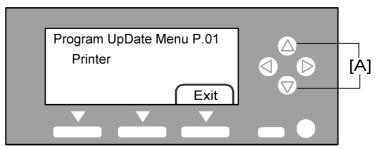
Firmware Update



- It is strongly recommended to store only B284, B288, B892 and D323 files on SD cards used for downloading to B284, B288, and B292. With the controller used on this model, a firmware update may sometimes be interrupted if there is software for multiple models stored on the same SD card.
- Turn OFF the main power switch.
- If the machine is connected to a network, disconnect the network cable from the copier.
- Remove the slot cover
 [A] (²/₈ x 1).
- 8. With the label on the SD card facing the rear side of the machine, insert the SD card into the uppermost slot [B] on the controller box. Slowly push the SD card into the slot so it locks in place.



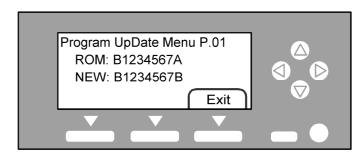
- 9. Make sure the SD card is locked in place. (To remove the SD card, push it in to unlock the spring lock and then release it so it pops out of the slot.)
- 10. Switch the main power switch ON. After about 5 seconds, the LCD will display "Please wait..." Then, about 60 seconds later, the LCD will display "Program UpDate Menu P.01" on the first line and the name of the firmware on the second line (e.g. System/Copy).



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- Press the "OK" key to select a module.
 - To scroll through the menus, press the △ or ∇ keys [A].



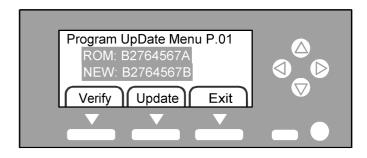
- To view the firmware version, press the right key. "ROM" is the information on the current firmware. "NEW" is the information on the firmware in the SD card.
- To return to the menu, press the

 key.
- To select the module, press the OK key.
- If you wish to install the following firmware simultaneously, press the START key. The scroll keys can be used to confirm that this firmware has been selected (highlighted with a dark background).

[Engine, FCU, Scanner, Printer, Printer Font, Security Module]

mportant 🛨

- Please note that the following firmware cannot be updated simultaneously. The update procedure must be repeated for each individually.
- System/Copy, ServiceCardNetFile, ServiceCardNIB, ServiceCardFAX, ServiceCardWebSystem.



- When you have selected a module, the text lines are highlighted, and the "Verify" key and the "Update" key are displayed.
- 12. Select a module and press the "Update" key.

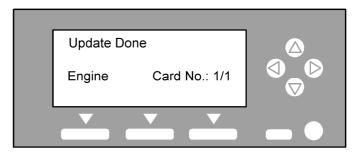


- Do NOT press the "Verify" key.
- 13. The firmware update program starts and the message "Loading" is displayed.

 - When the update is completed, the LCD display will change to "Update done" or "Updated / Power OFF ON".

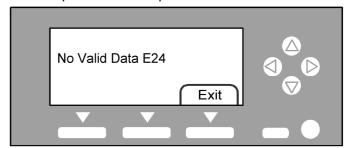
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14. Check that the message"Update Done" is displayed.



Confirmation

- 1. Turn the main power switch OFF and ON.
 - The LCD will display "Please wait..." for about 60 seconds, after which it will return to the "Program UpDate Menu" screen.
- 2. Repeat Steps 1-8 above until all firmware updates are complete.
- 3. Turn the main power switch OFF.
- Remove the SD card from the lower slot on the controller by pushing on the card to release the spring lock.



If an error occurs, the error code is displayed. For a list of information on error codes, see the following table.

Code	Cause	Necessary Action
E20	Physical address mapping error	Insert the SD card correctly.Use another SD card
E22	Decompression error	Store correct data in the SD card.
E23	Update program error	Update controller program. Replace the controller.
E24	SD card access error	Insert the SD card correctly. Use another SD card.
E31	Download data inconsistency*	Insert the SD card that was used when the previous update procedure is interrupted.
E32	Download data inconsistency*	Insert the SD card that stores the correct data.
E33	Version data error	Store the correct data in the SD card.

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Code	Cause	Necessary Action
E34	Locale data error	Store the correct data in the SD card.
E35	Machine model data error	Store the correct data in the SD card.
E36	Module data error	Store the correct data in the SD card.
E40	Engine program error**	Store the correct data in the SD card. Replace BICU.
E42	Operation panel program error*	Store the correct data in the SD card.Replace the operation panel board.
E44	Controller program error*	Store the correct data in the SD card.Replace the controller board.
E50	Authentication error	Store the correct data in the SD card.

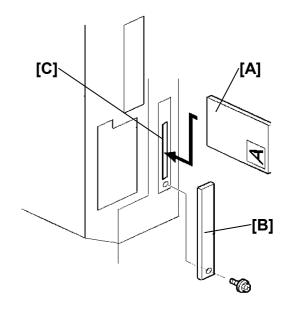
^{*}You need to reinstall the program.

If the firmware update program is interrupted (for example, by a power failure), keep the SD card inserted and turn the mains switch off and on. The firmware update program restarts. If you do not do so, the message "Reboot after Card insert" is displayed when you turn the main switch ON.

⇒ Procedure for the B262 and B292

This section describes how to update the firmware for the B262 and B292.

- 1. Turn the main power switch OFF.
- 2. Remove the memory card cover [B] (\$\beta\$ x 1)
- Turn the face of the flash memory card [A] ("A" is printed on it.) to the rear of the copier, and insert it into the card slot [C].

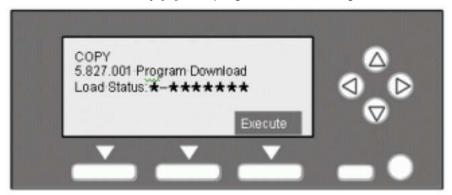


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⇒4. Press down the power switch on the operation panel and hold it, and turn on the main power switch.



5. Press the "Execute" key [D]. The program starts running.



6. Do not touch any key while the message "Load Status..." is displayed. This message indicates that the program is running.



- 7. Check that the message "End Sum..." is displayed. This message indicates that the program has ended normally.
- 8. Turn OFF the main power switch.
- 9. Remove the flash memory card.
- 10. Attach the memory card cover.
- 11. Turn the main power switch ON, and check the operation.

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5.1.12 TEST PATTERN PRINT (SP5-902-001)

Executing Test Pattern Printing

- 1. Specify the pattern number and press the OK key.
- 2. Press the copy start key. The copy mode is activated ("Using SP and SSP Modes" in this section).
- 3. Specify copy settings and press the ^(*) key.
- 4. To return to the SP mode, press the key.

Test Patterns

Test Patterns Using VCU		
No.	Pattern	
0	(No print)	
1	Vertical Lines (Single Dot)	
2	Horizontal Lines (Single Dot)	
3	Vertical Lines (Double Dot)	
4	Horizontal Lines (Double Dot)	
5	Grid Pattern (Single Dot)	
6	Grid Pattern (Double Dot)	
7	Alternating Dot Pattern	
8	Isolated One Dot	
9	Black Band (Horizontal)	
10	Trimming Area	
11	Argyle Pattern (Single Dot)	
12	Grayscales (Horizontal)	
13	Grayscales (Vertical)	

Test Patterns Using VCU		
14	Grayscales (Vertical/Horizontal)	
15	Grayscales (Vertical/Horizontal Overlay)	
16	Grayscales With White Lines (Horizontal)	
17	Grayscales with White Lines (Vertical)	
18	Grayscales with White Lines (Vertical/Horizontal)	

Test Patterns Using IPU			
No.	Pattern		
30	Vertical Lines (Single Dot)		
31	Horizontal Lines (Single Dot)		
32	Vertical Lines (Double Dot)		
33	Horizontal Lines (Double Dot)		
34	Isolated Four Dots		
35	Grid Pattern (Double Dot)		
36	Black Band (Vertical, 1024 Dots)		
37	Grayscales (Horizontal, 512 Dots)		
38	Grayscales (Vertical, 256 Dots)		
39	ID Patch		
40	Cross		

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Test Patterns Using IPU			
41	Argyle Pattern (128-Dot Pitch)		
42	Square Gradation (64 Grades)		
43	Square Gradation (256 Grades)		
44	Grayscales (Horizontal, 32-Dot Width)		
45	Grayscales (Vertical, 32-Dot Width)		
47	A4 Gradation Patches 1 (128 Grades)		
48	A4 Gradation Patches 2 (128 Grades)		
49	Trimming Area (A4)		

	Test Patterns Using SBU		
No.	Pattern		
51	Grid Pattern (double dot)		
52	Gray Scale 1 (256 grades)		
53	Gray Scale 2 (256 grades)		

	Test Patterns Using PCI*1		
No.	Pattern		
61	S2M: Grid Pattern		
62	S2M: Argyle Pattern		
63	S2M: Argyle Pattern		
64	S2M: Argyle Pattern + Image* ²		

	Test Patterns Using PCI*1		
65	S2M: Grid Pattern		
66	S2M: Grid Pattern + Image		
67	S2M: Argyle Pattern		
68	S2M: Argyle Patten + Image		
69	Engine: Grid Pattern		
70	Engine: Argyle Pattern		

^{*1:} The PCI is available to the models with the controller box.

5.1.13 SMC PRINT (SP5-990)

SP5-990 outputs machine status lists.

- 1. Select SP5-990.
- 2. Select a menu:
 - GW machine: 001 All (Data List), 002 SP (Mode Data List), 003 User Program, 004 Logging Data, 005 Diagnostic Report, 006 Non-Default, 007 NIB Summary, 008 Net File Log, 021 Copier User Program, 022 Scanner SP, 023 Scanner User Program, 040 Parts Alarm Counter Print, 064 Normal Count Print, 065 User Code Counter, 066 Key Operator Counter, 067 Contact List Print, 069 Heading1 print, 071 Heading3 print, 072 Group List Print, 128 ACC Pattern, 129 User Color Pattern, or 160:ACC Pattern Scan



- The output given by the menu "Big Font" is suitable for faxing.
- 3. Press the "Execute" key.
 - GW machine: The machine status list is output.
- 4. To return to the SP mode, press the key.

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^{*2:} The original image on the exposure glass is printed behind the test pattern.

5.1.14 POWER-ON SELF TEST

The controller tests the following devices at power-on. If an error is detected, an error code is stored in the controller board.

- CPU, ASIC and clock
- Flash ROM
- Resident and optional SDRAM
- NVRAM

PS fonts (if installed)

5.1.15 PRINTER SERVICE MODE

Service Mode Table

SP No.	Description	Function and Setting	
1001	BitSw#1 Set	Adjusts bit switch settings. Note: Currently the bit switches are not being used.	
1003	Clear Setting	Not used	
1004	Print Summary	Prints the service summary sheet (An error log is printed in addition to the configuration page).	
1005	Display Version	Displays the version of the controller firmware.	

SP Modes Related to Printer Controller

The following SP modes are located in the copier SP mode. Refer to section 5.1 of the main unit service manual.

SP No.	Description	Function and Setting	
5801	Memory All Clear	Resets data for process control and all software counters, and returns all modes and adjustments to their defaults values. section "Memory Clear" in this chapter for details.	
5907	Plug & Play	Selects the brand name and the production name for Windows Plug & Play. This information is stored in NVRAM.	
7832	Detailed Display of Self-Diagnostics	Displays the controller self-diagnostic result.	

5.1.16 SCANNER PROGRAM MODE TABLE

Service Table Key

Notation	What it means			
[range / default / step]	Example: [-9 to +9 / \pm 3.0 / 0.1 mm step]. The setting can be adjusted in the range \pm 9, value reset to +3.0 after an NVRAM reset, and the value can be changed in 0.1 mm steps with each key press.			
italics	Comments added for your reference.			
*	This value is stored in NVRAM. After a RAM reset, the default value (factory setting) is restored.			
DFU	Denotes "Design or Factory Use". Do not change this value.			

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SP1	Mode Number		Function and [Setting]	
1001*	5	Scan NV Version	Displays the scanner NV version. This shows as following: Function name _ Model name _ Version	
1004*	1	Compression Type	Selects the compression type for binary picture processing. [1: MH, 2: MR, 3: MMR]	
1005*	1	Erase Margin	Creates an erase margin for all edges of the scanned image. If the machine has scanned the edge of the original, create a margin. [0 to 5 / 0mm / 1mm step]	
1009*	1	Remote Scan disable	Enables or disables the network TWAIN scanner function. 0: enable, 1: disable	

SP	Number/Name	Function and [Setting]			
	Compression level (grayscale)				
2021	These SP codes set the compression ratio for the grayscale processing mode that can be selected with the notch settings on the operation panel. Range: 5 (lowest ratio) ←→ 95 (highest ratio)				
1	Level 3 (Middle I-Qual)	[5 to 95 / 40 /1/step]			
2	Level 2 (High I-Qual)	[5 to 95 / 50 /1/step]			
3	Level 4 (Low I-Qual)	[5 to 95 / 30 /1/step]			
4	Level 1 (Highest I-Qual)	[5 to 95 / 60 /1/step]			
5	Level 5 (Lowest I-Qual)	[5 to 95 / 20 /1/step]			

For the settings of the image quality, see the copier SP-mode table.